Service Manual

ViewSonic VG920-1

Model No. VS10790

19” Color TFT LCD Display

(VG920-1_SM Rev. 1b Aug. 2006)

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Revision History

Revision	SM Editing Date	ECR Number	Description of Changes	Editor
1a	12/08/2005		Initial release	Jamie Chang
1b	08/08/2006	VS-E060218	Add HSD190ME13-A16 panel source	Jamie Chang

TABLE OF CONTENTS

1. Precautions and Safety Notices	1
2. Specification	4
3. Front Panel Function Control Description	7
4. Circuit Description	14
5. Adjusting Procedure	22
6. Trouble Shooting Flow Chart	49
7. Recommended Spare Parts List	50
8. Exploded View And Exploded Parts List	64
9. Block Diagram	67
10. Schematic Diagrams	68
11. PCB Layout Diagrams	75

1. Precautions and Safety Notices

1.1 SAFETY PRECAUTIONS

This monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may cause damage to the monitor as well as the user. Carefully go over the following WARNINGS before installing and keep this guide handy.

WARNINGS

- This monitor should be operated only at the correct power sources indicated on the label on the rear end of the monitor. If you're unsure of the power supply in your residence, consult you local dealer or power company.
- Use only the special power adapter that comes with this monitor for power input.
- Do not try to repair the monitor your self as it contains no user-serviceable parts. This monitor should only be repaired by a qualified technician.
- Do not remove the monitor cabinet. There is high-voltage parts inside that may cause electric shock to human bodies, even when the power cord is unplugged.
- Stop using the monitor if the cabinet is damaged. Have it checked by a service technician.
- Put your monitor only in a clean, dry environment. If it gets wet, unplug the power cable immediately and consult your service technician.
- Always unplug the monitor before cleaning it .Clean the cabinet with a clean, dry cloth. Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- Keep the monitor away from magnetic objects, motors, TV sets, and transformer.
- Do not place heavy objects on the monitor or power cord.

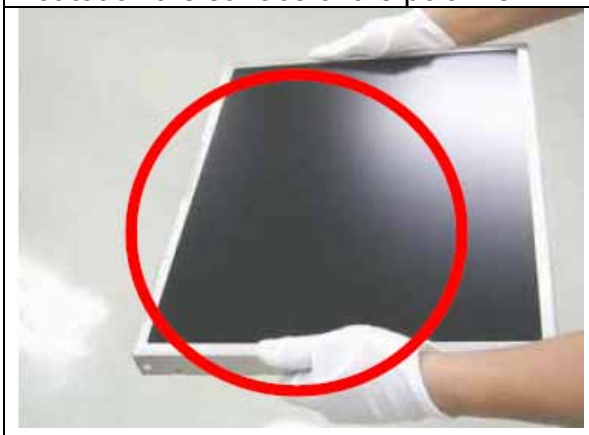
1.2 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety visual inspections and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltages, wattage, etc. Before replacing any of these components read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire ,or other hazards.

1.3 SERVICE NOTES

1. When replacing parts or circuit boards, clamp the lead wires around terminals before soldering.
2. When replacing a high wattage resistor(more than 1W of metal oxide film resistor) in circuit board, keep the resistor about 5mm away from circuit board.
3. Keep wires away from high voltage, high temperature components and sharp edges.
4. Keep wires in their original position so as to reduce interference.
5. Usage of this product please refer to also user's manual.

1.4 HANDING AND PLACING METHODS

Correct Methods:	Incorrect Methods:
Only touch the metal frame of the LCD panel or the front cover of the monitor. Do not touch the surface of the polarizer.	Surface of the LCD panel is pressed by fingers and that may cause “Mura.”
	
Take out the monitor with cushions	Taking out the monitor by grasping the LCD panel. That may cause “Mura.”

Place the monitor on a clean and soft foam pad.	Placing the monitor on foreign objects. That could scratch the surface of the panel or cause “Mura.”
Place the monitor on the lap, the panel surface must be upwards.	The panel is placed facedown on the lap. That may cause “Mura.”

2. Specification

2.1 PRODUCT SPECIFICATIONS

Panel Characteristics :

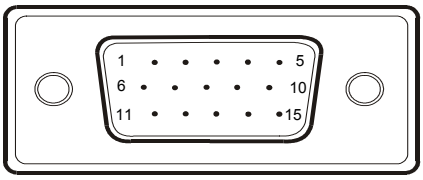
1st Source Panel e	AUO M190EN04 V51
Type	TN Technology"
Active Size	376.32 (H) x 301.06 (V)
Pixel Arrangement	RGB Vertical Stripe
Pixel Pitch	0.294 mm
GLASS TREATMENT	Anti Glare (Hard coating 3H)
# OF BACKLIGHTS	4 CCFL edge-light (2 top / 2 bottom)
BACKLIGHT LIFE	50,000 Hours (Typ) / 40,000 Hours (Min)
Luminance – Condition: CT = 6500K, Contrast = Max, Brightness = Max	270 cd/m2 (Typ after 30 minute warm up) 215 cd/m2 (Min after 30 minute warm up)
Brightness Uniformity	75 % Entire Area (Typ), 70% (min)
Contrast Ratio	550:1 (Typ), 350:1 (Min)
Color Depth	16 million colors (6 bit panel + 2 bit FRC)
Viewing Angle (Horizontal)	140 deg @ CR>10, ??? deg @ CR>5
VIEWING ANGLE (VERTICAL)	135 deg @ CR>10, ??? deg @ CR>5
Response Time 10%-90% @ Ta=25°C	8 ms (Tr= 5.6 ms, Tf = 2.4 ms) (Typ) 12 ms (Tr= 8.4 ms, Tf = 3.6 ms) (Max)
Panel Defects	Please see Panel Quality Specifications.

2nd Source Panel	BOE HT190E01-100
Type	"TN Technology"
Active Size	376.32 (H) x 301.06(V)
Pixel Arrangement	RGB Vertical Stripe
Pixel Pitch	0.294 mm
GLASS TREATMENT	Anti Glare (Hard coating 3H)
# OF BACKLIGHTS	4 CCFL edge-light (2 top / 2 bottom)
BACKLIGHT LIFE	50,000 Hours (Min)
Luminance – Condition: CT = 6500K, Contrast = Max, Brightness = Max	300 cd/m2 (Typ after 30 minute warm up) 250 cd/m2 (Min after 30 minute warm up)
Brightness Uniformity	75 % Entire Area (minimum)
Contrast Ratio	700:1 (Typ), 550:1 (Min)
Color Depth	16 million colors (6 bit panel)
Viewing Angle (Horizontal)	150 deg @ CR>10, 160 deg @ CR>5
VIEWING ANGLE (VERTICAL)	135 deg @ CR>10, 160 deg @ CR>5
Response Time 10%-90% @ Ta=25°C	8 ms (Tr= xx ms, Tf = xx ms) (Typ) 12 ms (Tr= xx ms, Tf = xx ms) (Max)
Panel Defects	Please see Panel Quality Specifications.

3rd **Source** Panel	Hannstar HSD190ME13-A16
Type	"TN Technology"
Active Size	376.32 (H) x 301.06(V)
Pixel Arrangement	RGB Vertical Stripe
Pixel Pitch	0.294 mm
GLASS TREATMENT	Anti Glare (Hard coating 3H)
# OF BACKLIGHTS	4 CCFL edge-light (2 top / 2 bottom)
BACKLIGHT LIFE	40,000 Hours (Min),50,000 Hours (typ)
Luminance – Condition: CT = 6500K, Contrast = Max, Brightness = Max	300 cd/m2 (Typ after 30 minute warm up) 240 cd/m2 (Min after 30 minute warm up)
Brightness Uniformity	70 % (minimum)
Contrast Ratio	700:1 (Typ), 460:1 (Min)
Color Depth	16.2 million colors (6 bit panel)
Viewing Angle (Horizontal)	150 deg @ CR>10,160 deg @ CR>5
VIEWING ANGLE (VERTICAL)	135 deg @ CR>10, 155 deg @ CR>5
Response Time 10%-90% @ Ta=25°C	8 ms (Tr= xx ms, Tf = xx ms) (Typ) 12 ms (Tr= xx ms, Tf = xx ms) (Max)
Panel Defects	Please see Panel Quality Specifications.

2.2 INTERFACE DESCRIPTION

D-SUB 15 PIN CONNECTOR

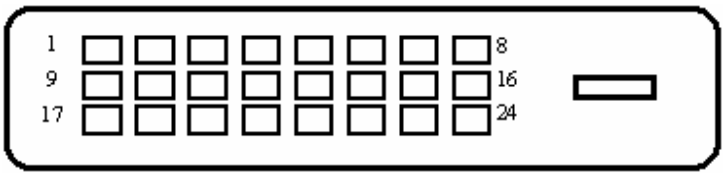


Pin Number	Pin Function
1	Red video input
2	Green video input
3	Blue video input
4	No Connection
5	Ground
6	Red video ground
7	Green video ground
8	Blue video ground
9	+5V
10	H/V sync ground
11	No connection
12	(SDA)
13	Horizontal sync (Composite sync)
14	Vertical sync
15	(SCL)

SIGNAL LEVEL

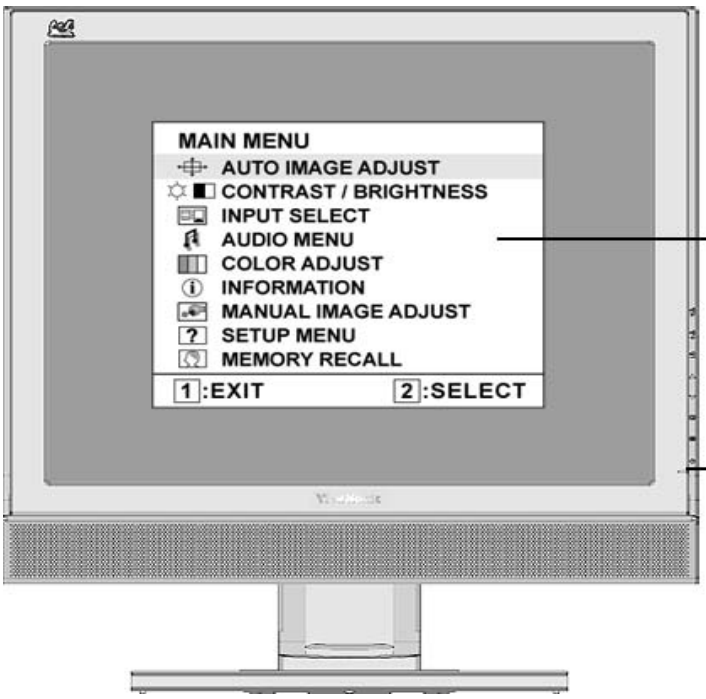
CONNECTOR	SIGNAL	DESCRIPTION
R	RED	0.7vp-p(VIDEO)
G	GREEN	0.7vp-p(VIDEO)
B	BLUE	0.7vp-p(VIDEO)
H	H/SYNC	TTL positive or negative
V	V/SYNC	TTL positive or negative
SDA	DDC1/2B	TTL
SCL	DDC1/2B	TTL

DVI-D 24 PIN CONNECTOR



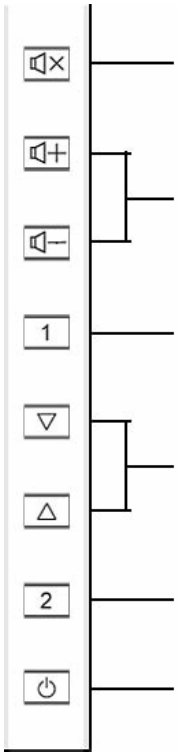
Pin No.	Signal Name	Description
1	RX2-	TMDS negative differential input, channel 2
2	RX2+	TMDS positive differential input, channel 2
3	GND	Logic Ground
4	Reserved 4	Reserved. No connection
5	Reserved 5	Reserved. No connection
6	DDC-CLK	DDC2B Clock
7	DDC-DAT	DDC2B Data
8	Reserved 8	Reserved. No connection
9	RX1-	TMDS negative differential input, channel 1
10	RX1+	TMDS positive differential input, channel 1
11	GND	Logic Ground
12	Reserved 12	Reserved. No connection
13	Reserved 13	Reserved. No connection
14	VCCX	Power
15	GND	Logic Ground
16	SENS	SENSE Pin, Pull High
17	RX0-	TMDS negative differential input, channel 0
18	RX0+	TMDS positive differential input, channel 0
19	GND	Logic Ground
20	Reserved 20	Reserved. No connection
21	Reserved 21	Reserved. No connection
22	GND	Logic Ground
23	RXC+	TMDS positive differential input, reference clock
24	RXC-	TMDS negative differential input, reference clock

3. Front Panel Function Controls And Indicators



Main Menu
with OSD controls

Front Control Panel
shown below in detail



Mute： Audio Mute button turns the sound off

Volume+/ Volume-：Decreases or increases volume

Button 1：Scrolls through menu options and adjusts the displayed control. Also a shortcut to display the Contrast adjustment control screen.

[▲]、[▼]：Displays the control screen for the highlighted control. Also toggles between two controls on some screens. Also a shortcut to toggle analog and digital connection.

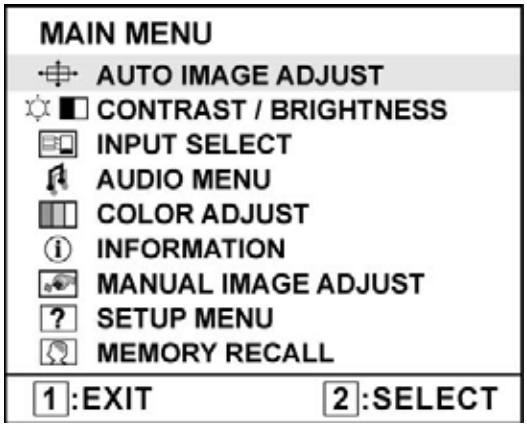
Button 2：Displays the control screen for the highlighted control. Also toggles between two controls on some screens. Also a shortcut to toggle analog and digital connection.

Power：Standby Power On/Off

Power LED (Front Head)	Green – ON Orange – Active Off Dark = Soft Power Switch OFF

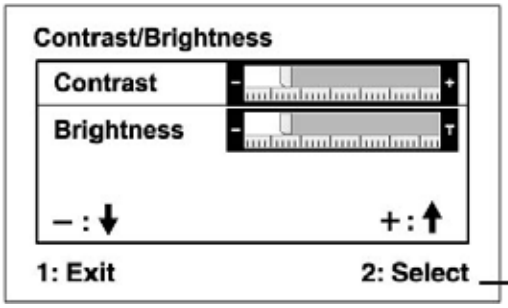
Do the following to adjust the display setting:

1. To display the Main Menu, press button [1].



NOTE: All OSD menus and adjustment screens disappear automatically after about 15 seconds. This is adjustable through the OSD timeout setting in the setup menu.

2. To select a control to adjust, press or ▼ to ▲ scroll up or down in the Main Menu.
3. After the desired control is selected, press button [2]. A control screen like the one shown below appears.



The command line at the bottom of the control screen tells what to do next from this screen. You can toggle between control screens, adjust the selected option, or exit the screen.

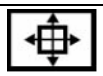
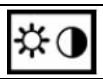
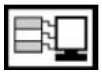
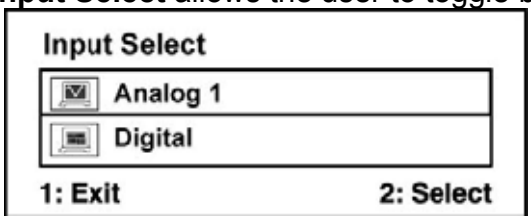
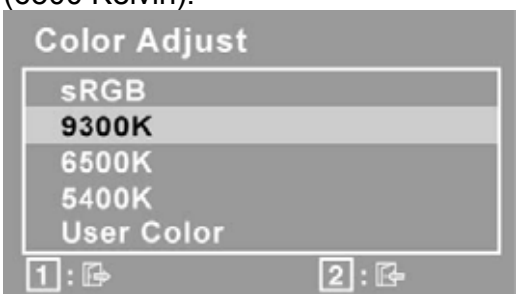
4. To adjust the setting, press the up ▼ or ▲ down T buttons.
5. To save the adjustments and exit the menu, press button [1] *twice*.

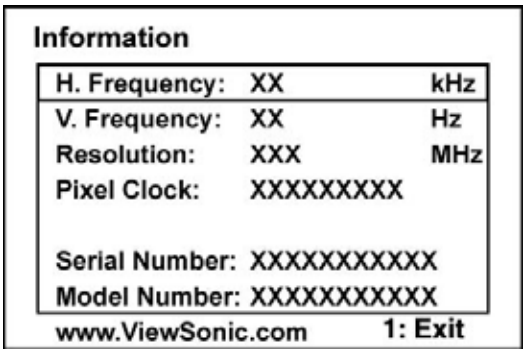
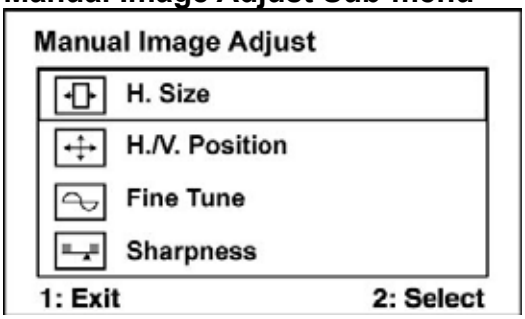
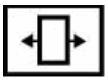
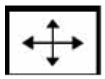
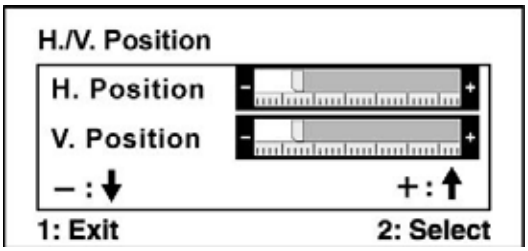
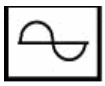
The following tips may help you optimize your display:

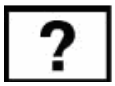
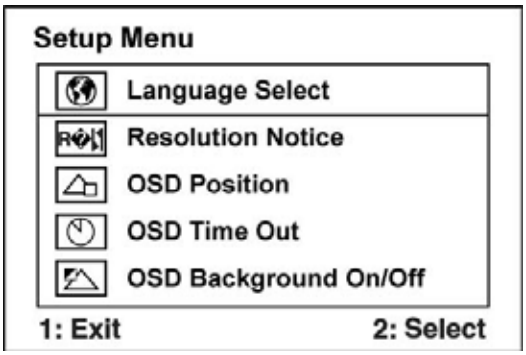
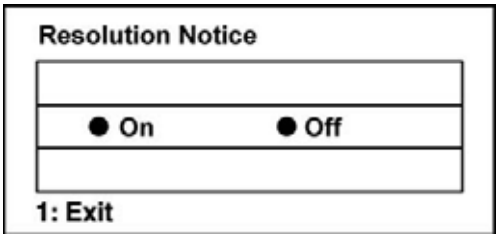
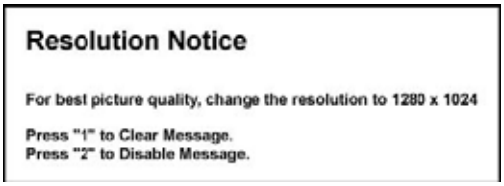
- Adjust the computer's graphics card so that it outputs a 1280 x 1024 @ 60Hz video signal to the LCD display. (Look for instructions on “changing the refresh rate” in the graphics card's user guide.)
- If necessary, make small adjustments using H. POSITION and V. POSITION until the screen image is completely visible. (The black border around the edge of the screen should barely touch the illuminated “active area” of the LCD display.)

Main Menu Controls

Adjust the menu items shown below by using the up ▲ and down ▼ buttons.

Control	Explanation
	**Auto Image Adjust** sizes and centers the screen image automatically.
	Contrast adjusts the difference between the image background (black level) and the foreground (white level).
	**Brightness** adjusts background black level of the screen image.
	**Input Select** allows the user to toggle between an analog and a digital signal. 
	Audio Adjust **Volume** increases the volume, decreases the volume, and mutes the audio. **Mute** temporarily silences audio output.
	Color Adjust provides several color adjustment modes, including preset color temperatures and a User Color mode which allows independent adjustment of red (R), green (G), and blue (B). The factory setting for this product is 6500K (6500 Kelvin).  **9300K-**Adds blue to the screen image for cooler white (used in most office settings with fluorescent lighting). **6500K-**Adds red to the screen image for warmer white and richer red. **5400K-**Adds green to the screen image for a darker color. **User Color** Individual adjustments for red (R), green (G), and blue (B). **1.** To select color (R, G or B) press button [2]. **2.** To adjust selected color, press ▼ and ▲. **Important:** If you select RECALL from the Main Menu when the product is set to a Preset Timing Mode, colors return to the 6500K factory preset.

	Information displays the timing mode (video signal input) coming from the graphics card in the computer, the LCD model number, the serial number, and the ViewSonic® website URL. See your graphics card's user guide for instructions on changing the resolution and refresh rate (vertical frequency). **NOTE:** VESA 1280 x 1024 @ 60Hz (recommended) means that the resolution is 1280 x 1024 and the refresh rate is 60 Hertz. 
	Manual Image Adjust Sub-menu 
	**H. Size (Horizontal Size)** adjusts the width of the screen image.
	**H./V. Position (Horizontal/Vertical Position)** moves the screen image left or right and up or down. 
	**Fine Tune** sharpens the focus by aligning text and/or graphics with pixel boundaries. **NOTE:** Try Auto Image Adjust first.
	Sharpness adjusts the clarity and focus of the screen image.

	**Setup Menu** displays the menu shown below: 
	Language Select allows the user to choose the language used in the menus and control screens.
	Resolution Notice allows the user to enable or disable this notice.  If you enable the Resolution Notice shown above and your computer is set at a resolution other than 1280 x 1024, the following screen appears. 
	OSD Position allows the user to move the OSD menus and control screens.
	OSD Timeout sets the length of time the OSD screen is displayed. For example, with a “30 second” setting, if a control is not pushed within 30 seconds, the display screen disappears.
	OSD Background allows the user to turn the OSD background On or Off.
	Memory Recall returns the adjustments back to factory settings if the display is operating in a factory Preset Timing Mode listed in the Specifications of this manual.

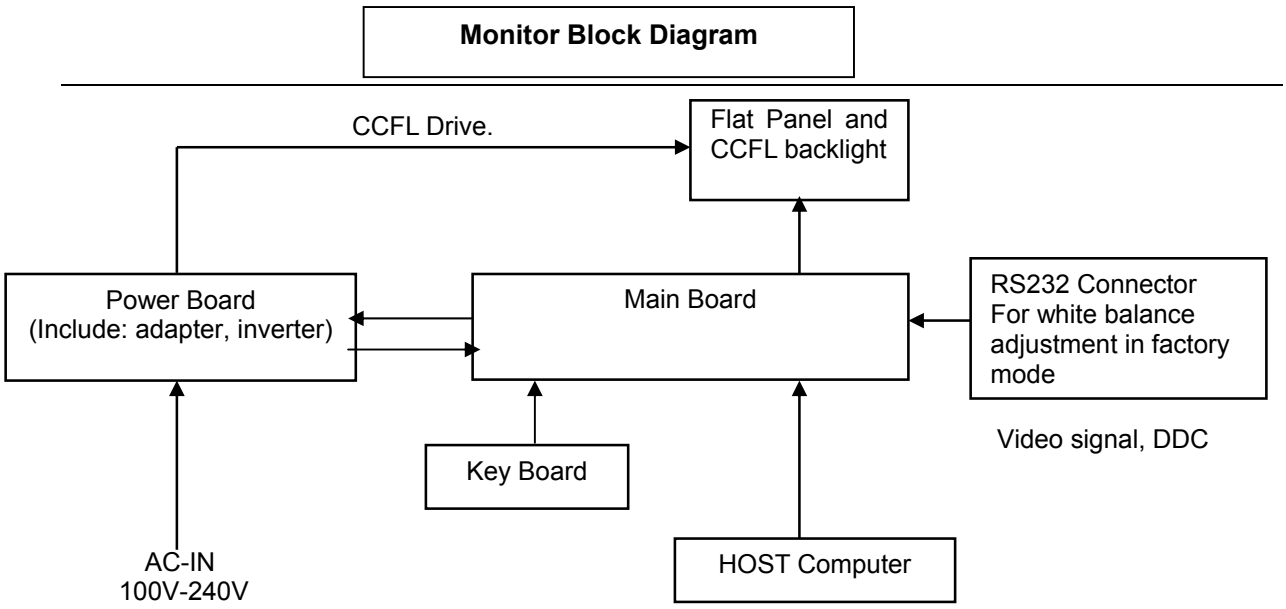
SHORT CUTS FUNCTION FROM THE BUTTONS

[1]	Main Menu
[2]	Input toggle (Analog or Digital).
[▼] or [▲]	To immediately activate Contrast menu. It should be change to Brightness OSD by push button [2]
[▼] + [▲]	recall both of Contrast and Brightness to default
[🔈+] or [🔈-]	To immediately activate Volume menu for audio volume.
[🔈+] + [🔈X]	Recall volume to default
[1] + [2]	toggle 720x400 and 640x400 mode when input 720x400 or 640x400 mode
[1] + [🔈X]	White Balance. (Not shown on user's guide)
[2] + [▼]	• **Power Button Lock:** Press and hold "[2], & ▼" for 10 seconds. If the power button is pressed the message *Power Button Locked* will display for 5 seconds. With or without this setting, after a power failure, your LCD display's power will automatically turn ON when power is restored. • **Power Button Unlock:** Press and hold "[2], & ▼" again for 10 seconds.
[1] + [▲]	• **OSD Lock:** Press and hold "[1], & (▲)" for 10 seconds. If any buttons are pressed the message *OSD Locked* will display for 5 seconds. • **OSD Unlock:** Press and hold "[1], & ▲" again for 10 seconds.
Remark : All the short cuts function are only available while OSD off	

4. Circuit Description

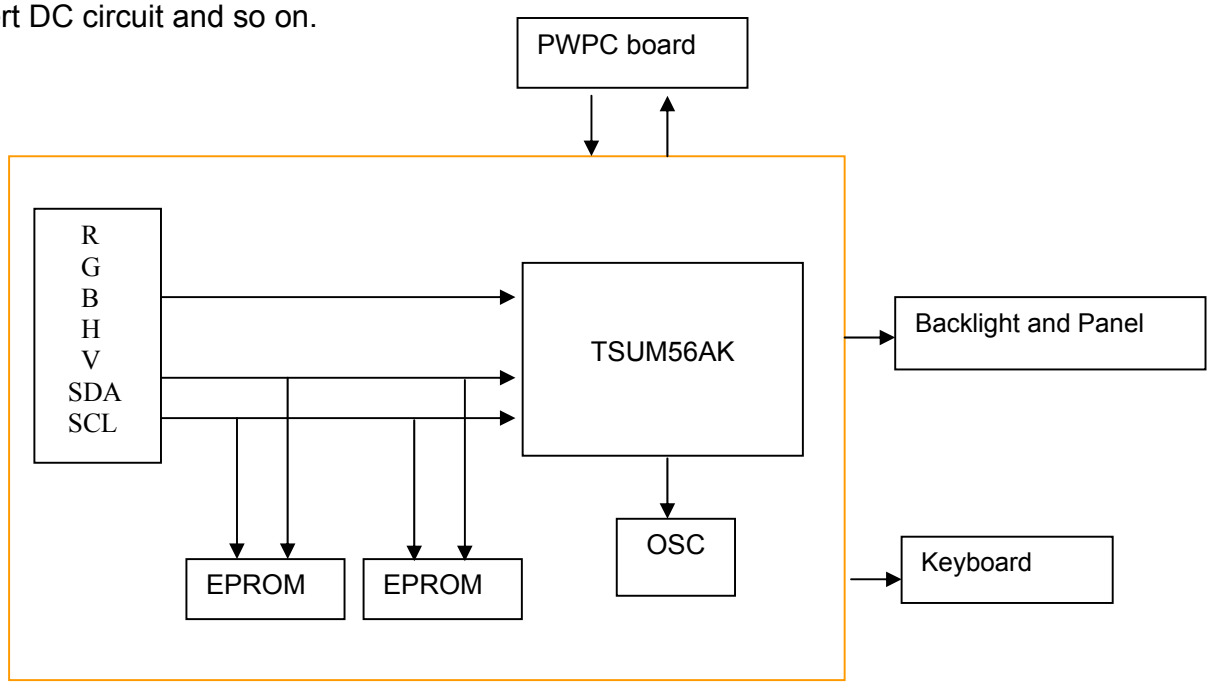
4.1 LCD MONITOR DESCRIPTION

The LCD MONITOR will contain a Main Board, an Power Board, Key Board which house the flat panel control logic, brightness control logic and DDC.



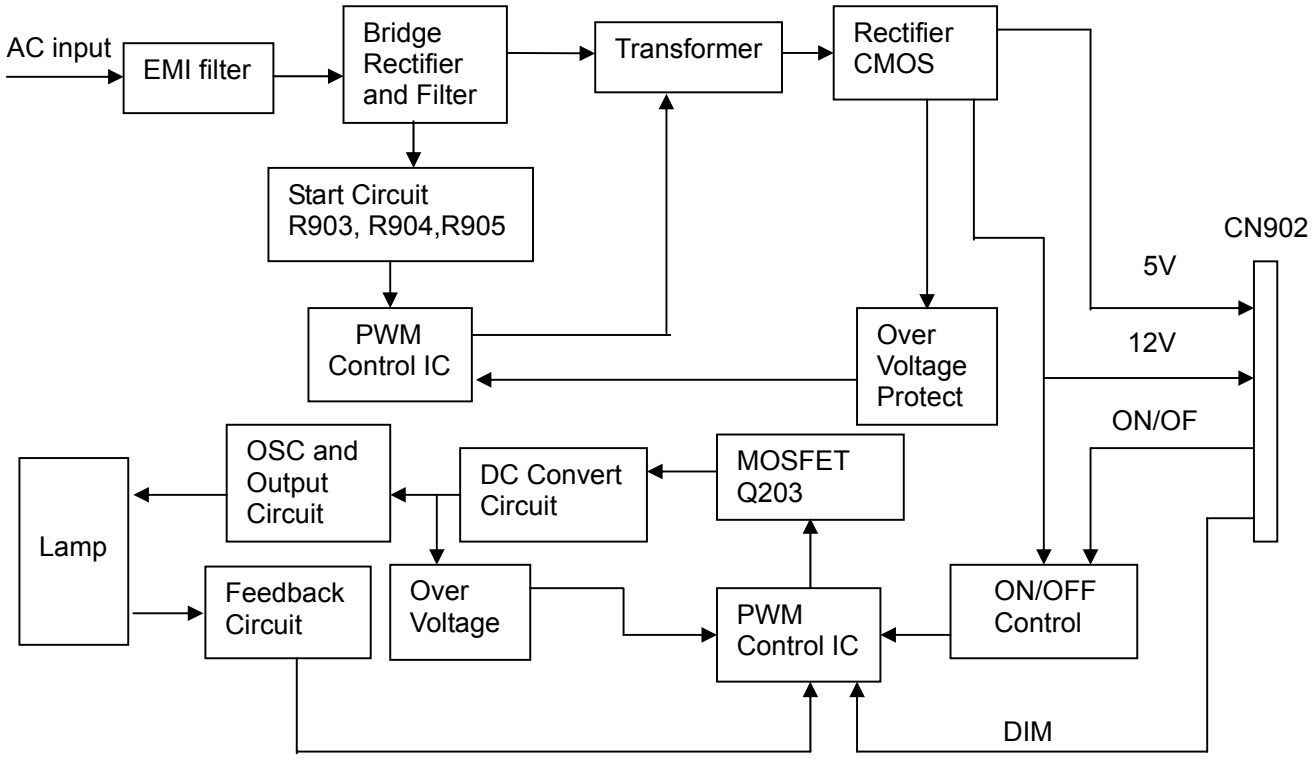
4.2 MAIN BOARD BLOCK FUNCTION DESCRIPTION

The main board contains panel control logic, brightness control logic, DDC and DC convert DC circuit and so on.



4.3 PWPC BOARD BLOCK FUNCTION DESCRIPTION

PWPC board combines to adapter and inverter, Adapter which commonly consists of bridge rectifier and filter, start circuit, PWM control circuit, protection circuits and convert to 12V, 5V DC voltage by input 90V-240V AC voltage that provide power supply for each chips in the main board and inverter. Inverter is DC TO AC circuit. It changes the 12v DC of power supply to about 600-800v AC that drives the backlight. It mostly consists of starting circuit, PWM controller, DC changing circuit, LC surging circuit, output circuit and protection circuit etc.



4.4 INTRODUCTION OF IC

STUM56AK(U401): integrate ADC, OSD, SCALER, MCU, LVDS, convert analog RGB into digital and room and shrink scaling output to LCD panel.

PIN Function:

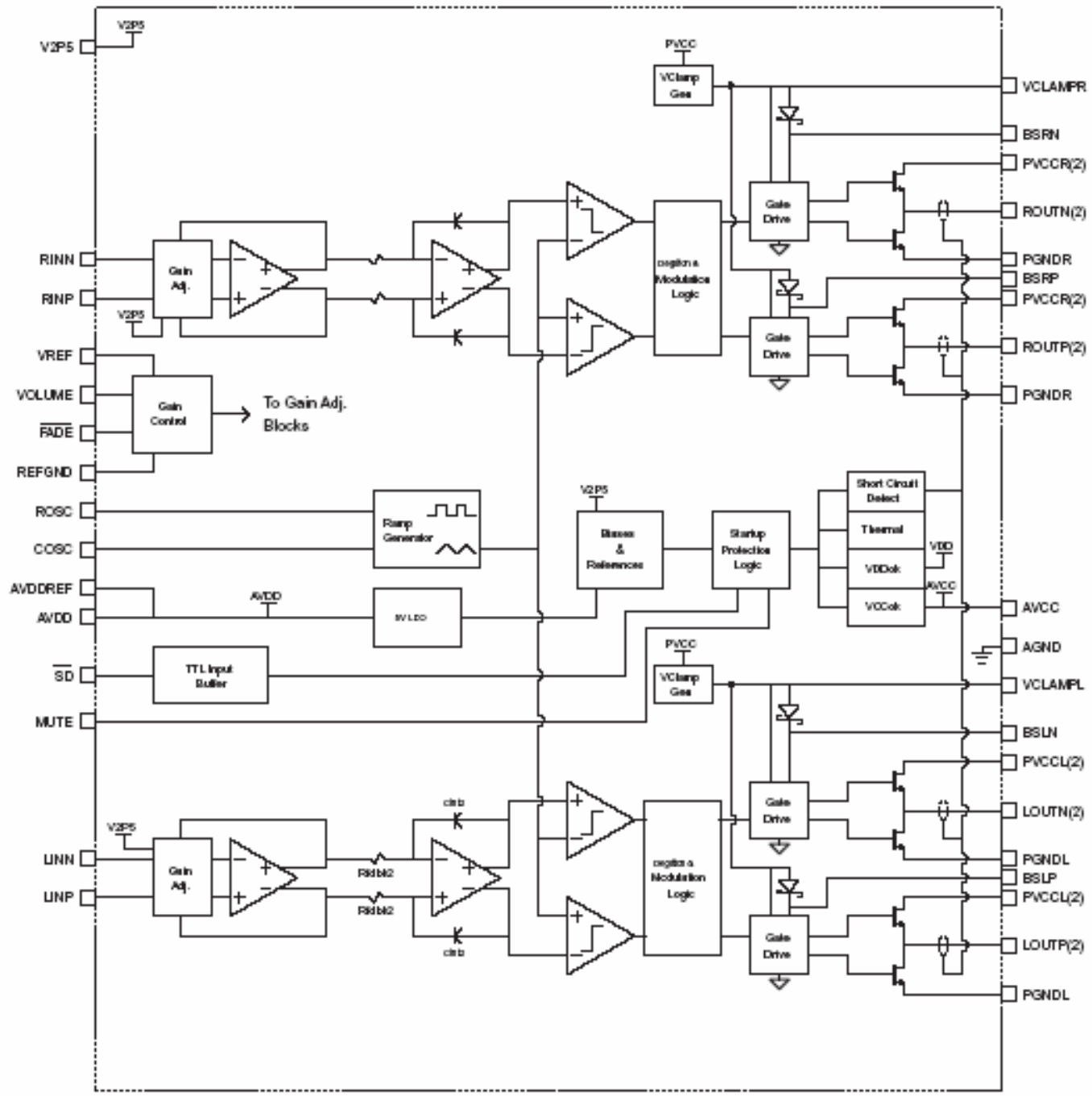
Pin	Symbol	Description
70	SDO	SPI flash serial data output; Input w/5V-tolerant
71	CSZ	SPI flash chip select; output
72	SCK	SPI flash serial select; output
73	SDI	SPI flash serial data input; output
65	DDCA_SDA/RS232_TX	DDC data for analog interface; 4mA driving strength/UART transmitter/GPIO; I/O w/5V-tolrant
66	DDCA_SDA/RS232_RX	DDC data for analog interface/UART transmitter/GPIO;Input w/5V-tolrant
36	DDCD_SDA	DDC data for DVI interface; 4mA driving strength; I/O w/5V-tolerant
37	DDCD_SCL	DDC clock for DVI interface; Input w/5V-tolerant
19	RST	Chip reset; High reset; Input w/5V-tolerant
22	RSTN	Chip reset; Low reset; Input w/5W-toerant
11	VCTRL	Regulator control; Output
63	HSYNCO	Analog HSYNC input
64	VSYNCO	Analog VSYNC input
62	REFP	Internal ADC top de-coupling pin
61	REFM	Internal ADC bottom de-coupling pin
51	REXT	External resistor 390 ohm to AVDD__DVI
21	PWM1	PWM1; 4mA driving strength; Output
29	PWM0	PWM0; 4mA driving strength; Output
4	BYPASS	For External Bypass Capacitor
33	XIN	Xin; Crystal Oscillator Input
34	XOUT	Xout; Crystal Oscillator Output
44、50	AVDD__DVI	DVI Power 3.3V
60	AVDD__ADC	ADC Power 3.3V
52	AVDD__PLL	PLL Power 3.3V
34	AVDD__MPLL	MPLL Power 3.3V
14、67、95、103、115	VDDP	Digital Output Power 3.3V
13、38、41、47、96、116	VDDC	Digital Core Power 1.8V

AIC1084-33PM (U702): DC power convert, used to 5v convert 3.3v.

LT1117-18(U701): DC power convert, used to 5v convert 3.3v.

TPA3003D2 (U601): The TPA3003D2 is a audio amplifier IC,3-W efficient, driving speakers as low as 8 Ω, range of gain from -40dB to 36 dB. The function of each pin and the inside circuit diagram are as follows**:**

Circuit Diagram

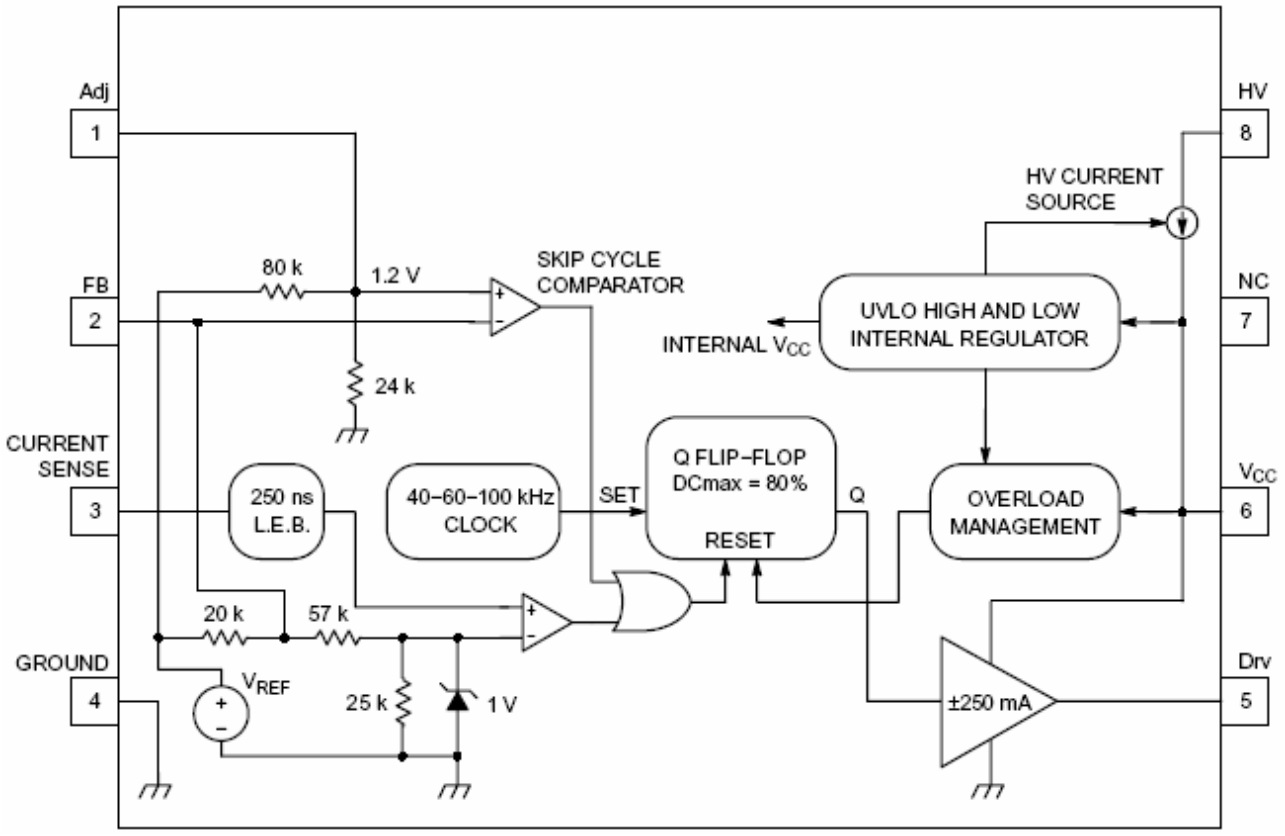


PIN Function

TERMINAL NO.	NAME	I/O	DESCRIPTION
AGND	9,10,26	-	Analog ground for digital/analog cells in core
AVcc	33	-	High-voltage analog power supply (8.5V to 14V)
AV_{DD}	29	O	5-V Regulated output
AV_{DD}REF	7	O	5-V Reference output-provided for connection to adjacent VREF terminal.
BSLN	13	I/O	Bootstrap I/O for left channel, negative high-side FET
BSLP	24	I/O	Bootstrap I/O for left channel, positive high-side FET
BSRN	48	I/O	Bootstrap I/O for right channel, negative high-side FET
BSRP	37	I/O	Bootstrap I/O for right channel, positive high-side FET
COSC	28	I/O	I/O for charge/discharging currents onto capacitor for ramp generator triangle wave biased at V2P5
FADE	30	I	Input for controlling volume ramp rate when cycling SD or during power-up. A logic low on this pin places the amplifier in fade mode. A logic high on this pin allows a quick transition to the desired volume setting.
LINN	6	I	Negative differential audio input for left channel
LINP	5	I	Positive differential audio input for left channel
LOUTN	16,17	O	Class-D 1/2-H-bridge negative output for left channel
LOUTP	20,21	O	Class-D 1/2-H-bridge positive output for left channel
MUTE	34	I	A logic high on this pin disables the outputs. A low on this pin enables the outputs.
NC	31,32,35	-	Not internally connected
PGNDL	18,19	-	Power ground for left channel H-bridge
PGNDR	42,43	-	Power ground for right channel H-bridge
PVVCCL	14,15	-	Power supply for left channel H-bridge(tied to pins 22 and 23 internally), not connected to PVCCR or AVcc
PVVCCL	22,23	-	Power supply for left channel H-bridge(tied to pins 14 and 15 internally), not connected to PVCCR or AVcc
PVCCR	38,39	-	Power supply for right channel H-bridge(tied to pins 46 and 47 internally), not connected to PVCCL or AVcc
PVCCR	46,47	-	Power supply for right channel H-bridge(tied to pins 38 and 39 internally), not connected to PVCCL or AVcc
REFGND	12	-	Ground for gain control circuitry. Connect to AGND. If using a DAC to control the volume, connect the DAC ground to this terminal.
RINP	3	I	Positive differential audio input for right channel
RINN	2	I	Negative differential audio input for right channel
ROSC	27	I/O	Current setting resistor for ramp generator. Nominally equal to 1/8*Vcc
ROUTN	44,45	O	Class-D 1/2-H-bridge negative output for right channel
ROUTP	40,41	O	Class-D 1/2-H-bridge positive output for right channel
SD	1	I	Shutdown signal for IC (low=shutdown, high=operational). TTL logic levels with compliance to Vcc.
VCLAMPL	25	-	Internally generated voltage supply for left channel bootstrap capacitors.
VCLAMPR	36	-	Internally generated voltage supply for right channel bootstrap capacitors.
VOLUME	11	I	DC voltage that sets the gain of the amplifier.
VREF	8	I	Analog reference for gain control section.
V2P5	4	O	2.5-V Reference for analog cells, as well as reference for unused audio input when using single-ended inputs.

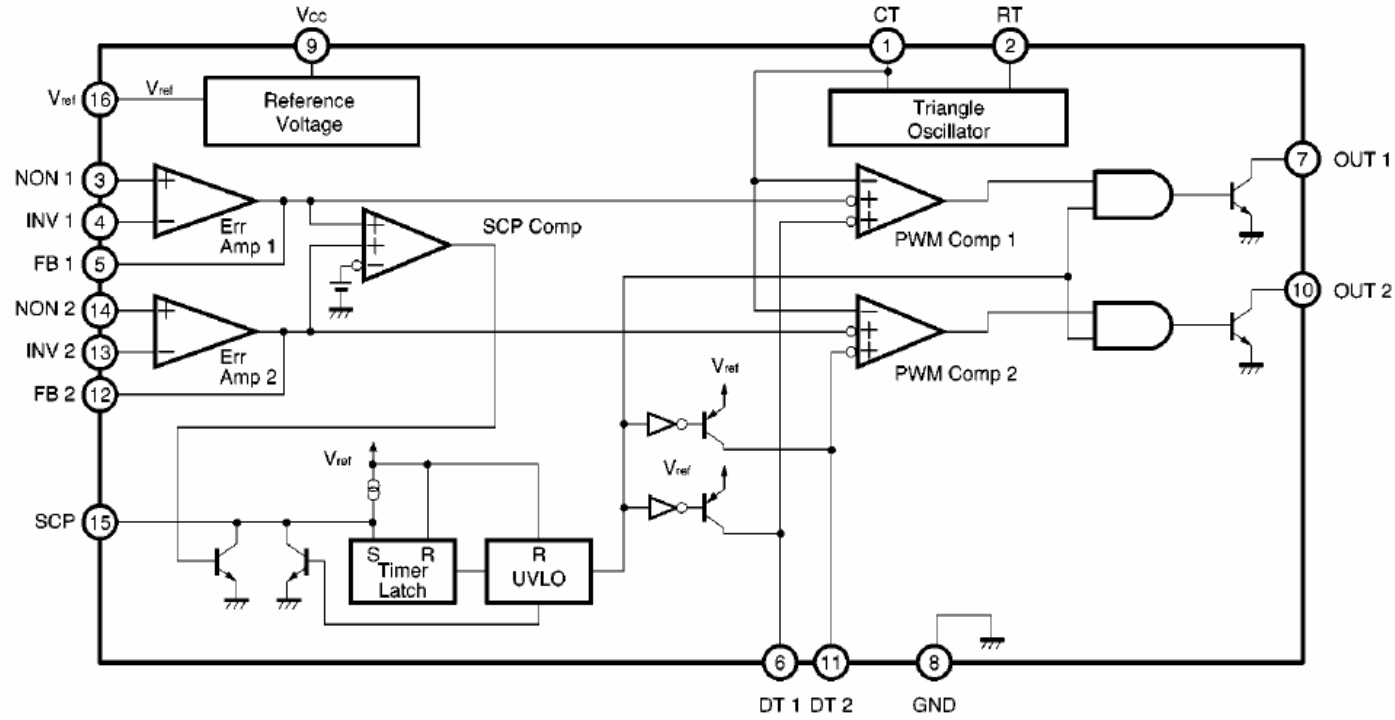
NCP1203D60R2G (IC901): PWM control, high-voltage startup current. The circuit unit has functions such as over-current protection, over-voltage protection, output short-circuit protection and etc. The function of each pin and the inside circuit diagram are as follows:

Pin No.	Pin Name	Function	Pin Description
1	Adj	Adjust the skipping peak current	This pin lets you adjust the level at which the cycle skipping process takes place. Shorting this pin to ground, permanently disables the skip cycle feature.
2	FB	Sets the peak current setpoint	By connecting an optocoupler to this pin, the peak current setpoint is adjusted accordingly to the output power demand. Skip cycle occurs when FB falls below Vpin1.
3	CS	Current sense input	This pin senses the primary current and routes it to the internal comparator via an L.E.B.
4	GND	The IC ground	−
5	Drv	Driving pulses	The driver's output to an external MOSFET.
6	VCC	Supplies the IC	This pin is connected to an external bulk capacitor of typically 22 □F.
7	NC	−	This unconnected pin ensures adequate creepage distance.
8	HV	Ensure a clean and lossless startup sequence	Connected to the high−voltage rail, this pin injects a constant current into the VCC capacitor during the startup sequence.



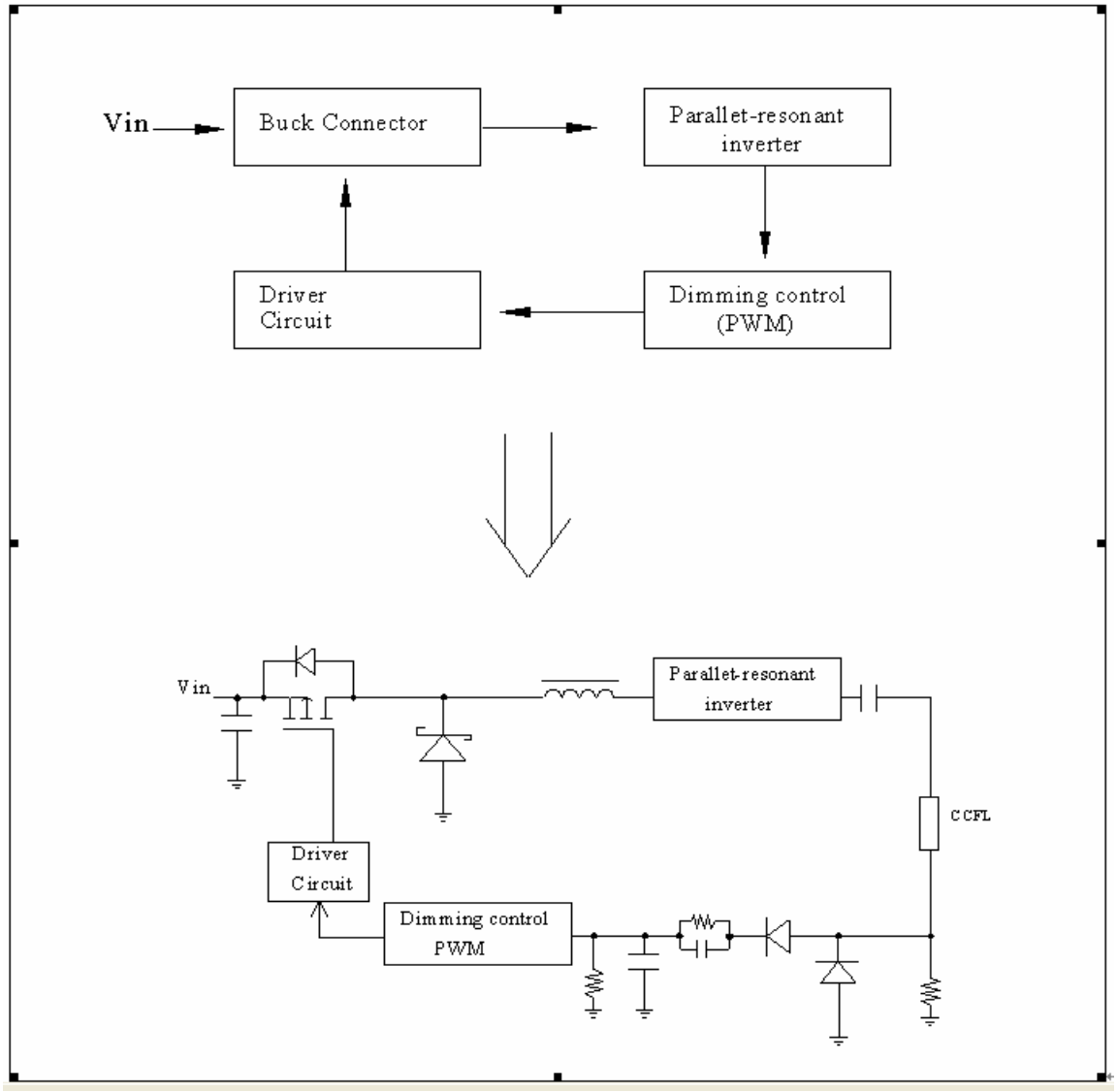
TL1451 (IC201): PWM control, voltage range for working: 3.6~35V, Has such functions as short-voltage protection, Over-voltage protection, over-current protection and etc. The function of each pin and the circuit diagram inside are as follows**:**

Pin	Symbol	Description	Pin	Symbol	Description
1	CT	External timing capacitor	9	VCC	Power supply
2	RT	External timing resistor	10	2OUT	Output 2
3	1IN+	Positive input for error amplifier 1	11	2DTC	Output 2 dead time/soft start setting
4	1IN-	Positive input for error amplifier 2	12	2FBK	Error amplifier 2 output
5	1FBK	Error amplifier 1 output	13	2IN+	Positive input for error amplifier
6	1DTC	Output 1 dead time/soft start setting	14	2IN-	Positive input for error amplifier
7	1OUT	Output 1	15	SCP	Timing latch setting
8	GND	Ground	16	REF	Reference voltage output (2.5v)

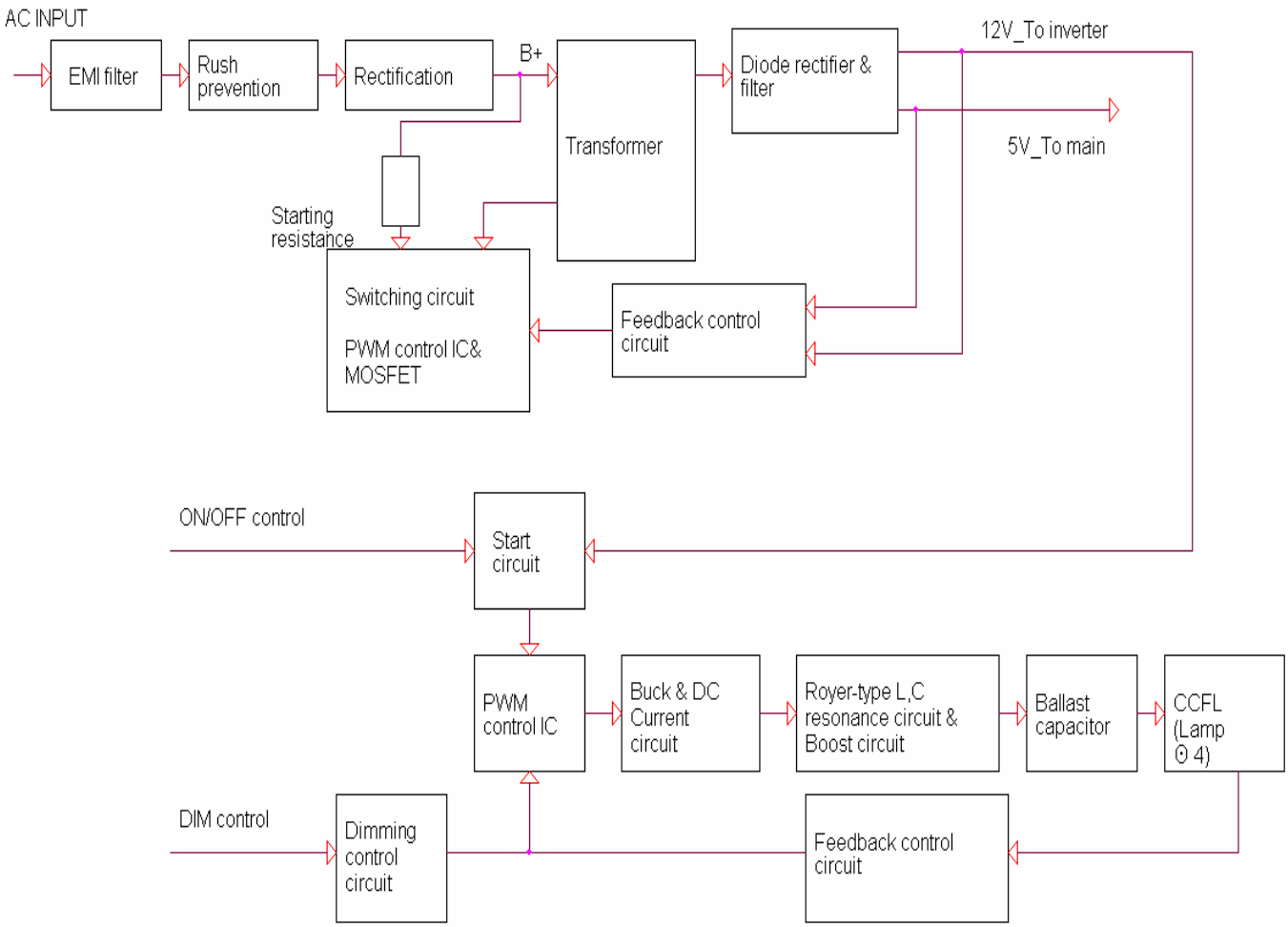


4.5 POWER BLOCK FUNCTION DESCRIPTION

Inverter Block Function



Power Block Function



5. Adjusting Procedure

5.1 ADJUSTMENT CONDITIONS AND PRECAUTIONS

1. Approximately 30 minutes should be allowed for warm up before proceeding.
2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.
3. ESD protection is needed before adjustment.

5.2 MAIN ADJUSTMENTS

NO.	FUNCTIONS	DESIGNATION
1.	White Balance	Function Key
2.	Geometry	Function Key

5.3 ALIGNMENT PROCEDURES

Approximately 30 minutes should be allowed for warm up before proceeding White-Balance adjustment.

1. Adjust of White Balance

1.)How to do the Chroma-7120 MEM .Channel setting

A、Reference to chroma 7120 user guide

B、Use " **SC**" key and " **NEXT**" key to modify xyY value and use "**ID**" key to modify the TEXT description Following is the procedure to do white-balance adjust

2.)Setting the color temp. You want

A、MEM.CHANNEL9 (9300 color):
9300 color temp. parameter is Wx = 0.283 ±0.03;Wy = 0.298 ±0.03;
Y = 250 ±20 cd/m^2 ,

B、MEM.CHANNEL10 (6500 color):
6500 color temp. parameter is Wx = 0.313±0.03;Wy = 0.329 ±0.03;
Y = 260 ±20 cd/m^2,

C、MEM.CHANNEL 11 (5400 color):
5400 color temp. parameter is Wx = 0.335±0.03;Wy = 0.350 ±0.03;
Y = 250 ±20 cd/m^2,

D、MEM.CHANNEL10 (SRGB color):
6500 color temp. parameter is Wx = 0.313±0.03;Wy = 0.329 ±0.03;
Y = 220 ±20 cd/m^2,

3.)Into factory mode of VG720

A、First Power off, then press Switch 2 button along with press Power button will activate the factory mode, then MCU will do AUTO LEVEL automatically. Meanwhile press MENU the OSD screen will located at **LEFT TOP OF PANEL**.

4.)Bias adjustment :

Set the **Contrast** to 70

Adjust the **Brightness** to 100.

5.)Gain adjustment :

Move cursor to "-F-" and press MENU key

A、Adjust 9300 color-temperature

(1)、Switch the Chroma-7120 to **RGB-Mode** (with press "MODE" button)
(2)、Switch the MEM. channel to Channel 9 (with up or down arrow on chroma 7120)
(3)、The LCD-indicator on chroma 7120 will show x = 0.283 ±0.03, y =0.298 ±0.03, Y = 250 ±20 cd/m^2
(4)、Adjust the RED of color1 on factory window until chroma 7120 indicator reached the value R=100
(5)、Adjust the GREEN of color1 on factory window until chroma 7120 indicator reached the value G=100
(6)、Adjust the BLUE of color1 on factory window until chroma 7120 indicator reached the value B=100
(7)、Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±5

B、Adjust 6500 color-temperature

(1)、Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
(2)、Switch the MEM .channel to Channel 10(with up or down arrow on chroma 7120)
(3)、The LCD-indicator on chroma 7120 will show x = 0.313 ±0.03, y = 0.329 ±0.03, Y = 260 ±20 cd/m^2
(4)、Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value R=100
(5)、Adjust the GREEN of color3 on factory window until chroma 7120 indicator reached the value G=100
(6)、Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached the value B=100
(7)、Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±5

C、Adjust 5400 color-temperature

(1) Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
(2)、Switch the MEM .channel to Channel 11(with up or down arrow on chroma 7120)
(3)、The LCD-indicator on chroma 7120 will show x = 0.335 ±0.03, y = 0.350 ±0.03, Y = 250 ±20 cd/m^2
(4)、Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value R=100
(5)、Adjust the GREEN of color3 on factory window until chroma 7120 indicator reached the value G=100
(6)、Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached the value B=100
(7)、Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±5

D、Adjust SRGB color-temperature

(1)、Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
(2)、Switch the MEM .channel to Channel 10(with up or down arrow on chroma 7120)
(3)、The LCD-indicator on chroma 7120 will show x = 0.313 ±0.03, y = 0.329 ±0.03, Y = 220 ±20 cd/m^2
(4)、Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value R=100
(5)、Adjust the GREEN of color3 on factory window until chroma 7120 indicator reached the value G=100
(6)、Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached the value B=100
(7)、Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±5

E、Press reset key and Turn the Power-button “off to on” to quit from factory mode.

2. Geometry

1).Set cross-hatch pattern and preset timing as timing table listed.
2).Change to each mode in turn and wait for the monitor finish auto-alignment and save press before change to next mode.
3).Until all of modes are adjusted,exit OSD menu and press POWER OFF to exit factory mode.

5.4 Factory Defaults

Item	Defaults	Item	Defaults
Contrast	70%	Sharpness	33%
Brightness	100%	OSD H. Position	50%
Volume	50%	OSD V. Position	50%
Balance	50%	OSD Time Out	15 Sec
Bass	50%	OSD Background	On
Treble	50%	OSD PIVOT	Off
Color Temperature	6500K	Resolution Notice	Enabled
		720x400/640x400	720x400

5.5 Function Test

1 Product: 17" LCD Monitor

2 Test Equipment: Color Video Signal & Pattern (or PC with SXGA resolution and a sound card)

3 Test Condition: Before function test and alignment, each LCD Monitor should be warmed up for at least 30 minutes with the following conditions:

(a)In room temperature,

(b) With full-white screen, RGB, and Black

(c) With cycled display modes,

640*480 (H=43.27kHz, V=85Hz)

800*600 (H=53.7kHz, V=85Hz)

1024*768 (H=68.67kHz, V=85Hz)

1280*1024 (H=79.97kHz, V=75Hz)

4 Test Display Modes & Pattern

Compatible Modes

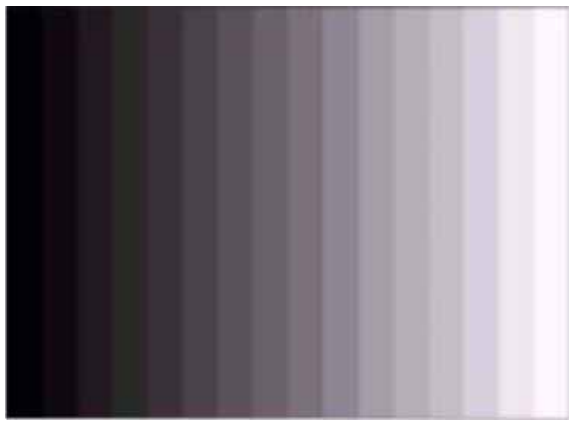
Analog	Digital
640 x 350 @ 70Hz, 31.5kHz	640 x 350 @ 70Hz, 31.5kHz
640 x 400 @ 70Hz, 31.5kHz	640 x 400 @ 70Hz, 31.5kHz
640 x 480 @ 60Hz, 31.5kHz	640 x 480 @ 60Hz, 31.5kHz
640 x 480 @ 67Hz, 35.0kHz	640 x 480 @ 67Hz, 35.0kHz
640 x 480 @ 72Hz, 37.9kHz	640 x 480 @ 72Hz, 37.9kHz
640 x 480 @ 75Hz, 37.5kHz	640 x 480 @ 75Hz, 37.5kHz
720 x 400 @ 70Hz, 31.5kHz	720 x 400 @ 70Hz, 31.5kHz
800 x 600 @ 56Hz, 35.1kHz	800 x 600 @ 56Hz, 35.1kHz
800 x 600 @ 60Hz, 37.9kHz	800 x 600 @ 60Hz, 37.9kHz
800 x 600 @ 75Hz, 46.9kHz	800 x 600 @ 75Hz, 46.9kHz
800 x 600 @ 72Hz, 48.1kHz	800 x 600 @ 72Hz, 48.1kHz
832 x 624 @ 75Hz, 49.7kHz	832 x 624 @ 75Hz, 49.7kHz
1024 x 768 @ 60Hz, 48.4kHz	1024 x 768 @ 60Hz, 48.4kHz

1024 x 768 @ 70Hz, 56.5kHz 1024 x 768 @ 72Hz, 58.1kHz 1024 x 768 @ 75Hz, 60.0kHz 1280 x 1024 @ 60Hz, 63.4kHz 1280 x 1024 @ 75Hz, 79.97kHz 1280x 720 @ 60Hz, 45kHz	1024 x 768 @ 70Hz, 56.5kHz 1024 x 768 @ 72Hz, 58.1kHz 1024 x 768 @ 75Hz, 60.0kHz 1280 x 1024 @ 60Hz, 63.4kHz 1280 x 1024 @ 75Hz, 79.97kHz 1280x 720 @ 60Hz, 45kHz

Function Test Display Pattern

Item	Test Content	Pattern	Specification	Remark
1	Frequency & Tracking	Fine Line Moire	Eliminate visual wavy noise.	Figure 1
2	Contrast/Brightness	16 Gray Scale	16 gray levels sh should be distinguishable.	Figure 2
3	Boundary	Horizontal&Vertical Thickness	Horizontal and Vertical position of video should be adjustable to be within the screen frame.	Figure 3
4	RGB Color Performance	RGB Color Intensities	Contrast of each R, G, B, color should be normal.	Figure 4,5,6
5	Screen Uniformity & Flicker	Full White	Should be compliant with the spec.	Figure 7
6	Dead Pixel/Line	White Screen & Dark Screen	The numbers of dead pixels should be compliant with the spec.	Figure 7,8
7	White Balance	White & Black Pattern	The screen must have the pure white and black pattern, no other color.	Figure 9

Fine Line Morie Pattern (Figure1)



Gray Scale Pattern (Figure2)

Horizontal & Vertical Thickness Pattern (Figure 3)

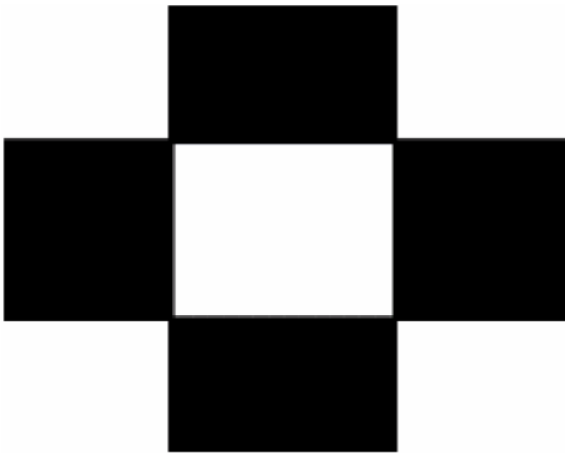
R. Color Pattern (Figure 4)

G. Color Pattern (Figure 5)

B. Color Pattern (Figure 6)

Full White Pattern (Figure 7)

Dark Screen Pattern (Figure 8)



Black-White Pattern (Figure 9)

4.3 Function Test and Alignment Procedure

All Modes Reset

You should do “All Mode Reset” (Refer to Chapter III-3. Hot Keys for Function Controls) first. This action will allow you to erase all end-user’s settings and restore the factory defaults.

Auto Image Adjust

Please select and enter “Auto Image Adjust” function on Main Menu to see if it is workable. The “Auto Image Adjust” function is aimed to offer a better screen quality by built-in ASIC. For optimum screen quality, the user has to adjust each function manually.

Firmware

Test Pattern: Burn In Mode (Refer to Chapter III-3. Hot Keys for Function Controls)

- Make sure the F/W is the latest version.

DDC

Test Pattern: EDID program

Make sure it can pass test program.

Fine Tune and Sharpness

Test Signal: 1280*1024@60Hz

Test Pattern: Line Moire Pattern

Check and see if the image has noise and focus performs well. Eliminate visual line bar.

If not, readjust by the following steps:

(a)Select and enter “Fine Tune” function on “Manual Image Adjust” to adjust the image to eliminate visual wavy noise.

(b)Then, select and enter “Sharpness” function to adjust the clarity and focus of the screen image.

Boundary

Test Signal: 1280*1024@60Hz

Test Pattern: Horizontal & Vertical Line Thickness Pattern

Check and see if the image boundary is within the screen frame.

If not, readjust by the following steps:

(a)Select and enter “Manual Image Adjust” function on OSD Main Menu.

(b)Then, select and enter “Horizontal Size” or “Horizontal/Vertical Position” function to adjust the video boundary to be full scanned and within screen frame.

White Balance

Test Signal: 640*480@60Hz
Test Pattern: White and Black Pattern
1.5.8 R, G, B, Colors Contrast
Test Signal: 1280*1024@60Hz
Test Pattern: R, G, B, Color Intensities Pattern and 16 Gray Scale Pattern

- Check and see if each color is normal and distinguishable.
- If not, please return the unit to repair area.

Screen Uniformity and Flicker

Test Signal: 1280*1024@60Hz
Test Pattern: Full White Pattern

- Check and see if it is in normal condition.

1.5.10 Dead Pixel and Line
Test Signal: 1280*1024@60Hz
Test Pattern: Dark and White Screen Pattern

- Check and see if there are dead pixels on LCD panel with shadow gauge and filter film.
- The total numbers and distance of dead pixels should be compliant with the spec.

Mura

Test Pattern: White, RGB, Black, & Grey
Test Tool: 10% ND Filter

- Check if the Mura can pass 10% ND Filter.

Audio

Test Signal: Voice signal (optional, depend on model)
Test Pattern: liberty

- Make sure there is audio output.
- Make sure that audio function (volume 80%) is working without noise and resonance.
- Make sure that the sound of right and left speakers are in balance.

Check for Secondary Display Modes

Test Signal:
Analog: 640*350@70Hz; 640*480@60/67/72/75/85Hz;
720*400@70Hz; 800*600@56/60/72/75/85Hz;
832*624@75Hz, 1024*768@60/70/72/75/85Hz;
1280*1024@60/75Hz
Digital: 640*350@70Hz; 640*480@60/72/75/85Hz;
720*400@70Hz; 800*600@56/60/72/75/85Hz;
1024*768@60/70/72/75/85Hz; 1152*870@75Hz,
1280*720@60Hz, 1280*1024@60Hz

- Normally when the primary mode 1280*1024@60Hz is well adjusted and compliant with the specification, the secondary display modes will also be compliant with the spec. But we still have to check with the general test pattern to make sure every secondary is compliant with the specification.
-

All Modes Reset

After final QC step, we have to erase all saved changes again and restore the factory defaults. You should do “All Mode Reset” again.

Power Off Monitor

Turn off the monitor by pressing “Power” button.

5.6 Firmware Upgrade Procedure

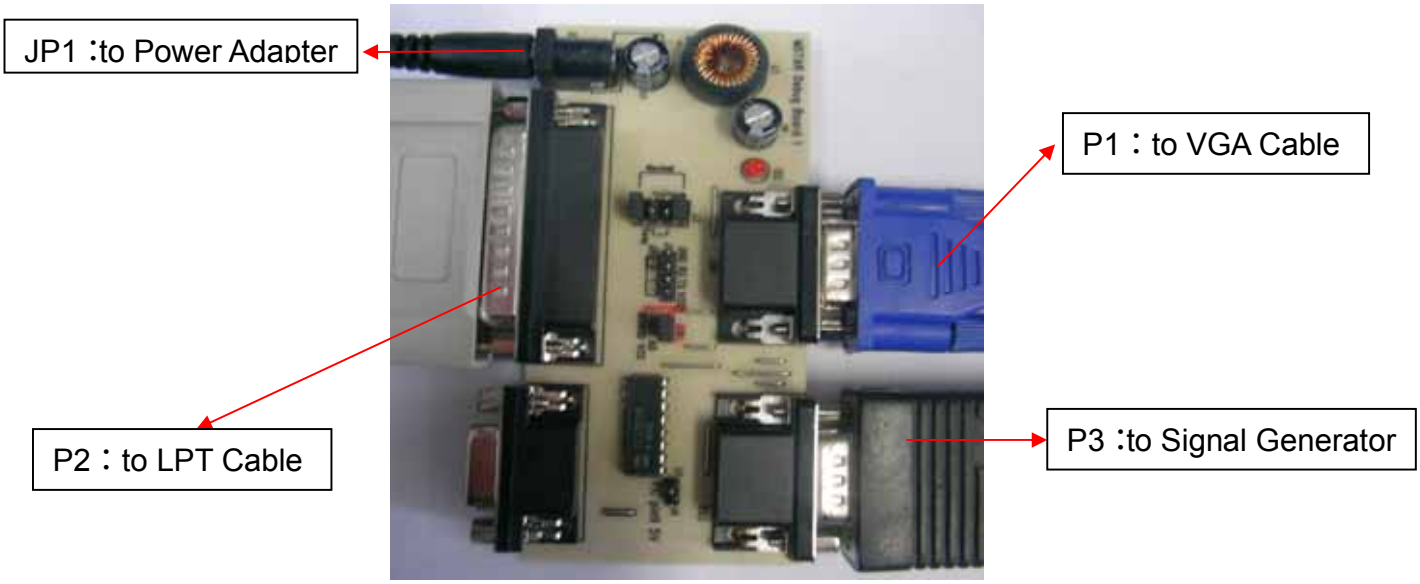
When you receive the returned monitor, please check whether the firmware version is the latest. If not, please do the following procedures to upgrade it to the latest version.

1 Equipment Needed

- VG720/VG920 Monitor
- Fixture for Firmware Upgrade
- Power Adapter (P/N: 47.58201.001) *1 for Fixture
- VGA Cable (P/N: 42.59901.003) *1(Pin 4, 11 should be connected to GND)
- PC (Personal Computer)
- LPT Cable (P/N: 42.59906.001) *1
- Firmware Upgrade Program
- One additional monitor for checking the program execution

2 Setup Procedure

2.1 Connect P2 of Fixture with printer port of PC by LPT Cable.
2.2 Connect P1 of Fixture with VG720/VG920 Monitor by VGA Cable.
2.3 Plug Power Adapter to Fixture.
2.4 Connect Power Cord to VG720/VG920 Monitor.
2.5 Connect P3 to the Signal Generator (eg.Chroma2326) for verifying it after the operation being completed.
2.6 Connect PC to the additional monitor.

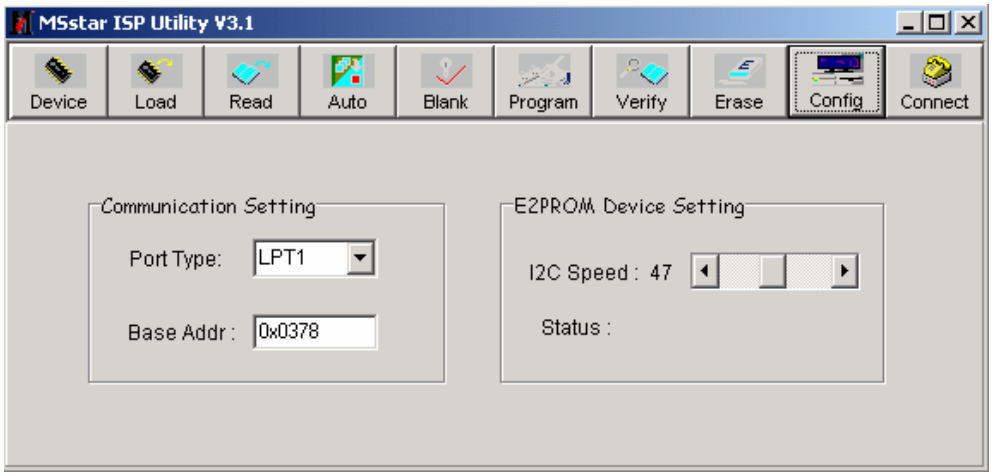


3 Firmware Upgrade Procedure

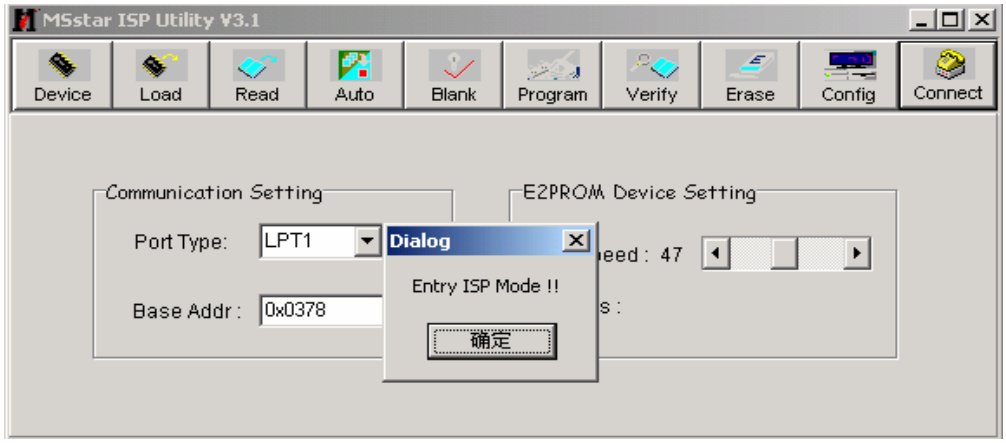
Step 1. Let VG720/VG920 set to be connected with AC cable and VGA cable.

Step 2.Execute the MSstar ISP tool.

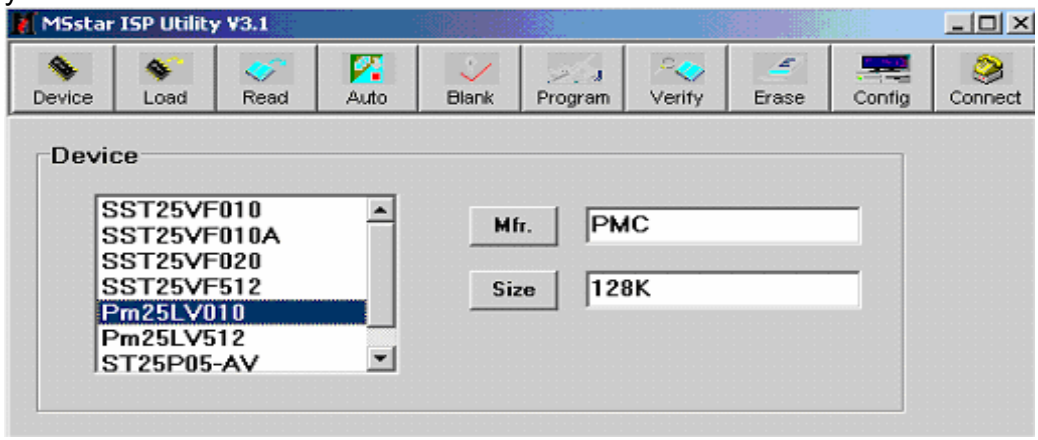
Step 3. Click “Config” button . Select the Port Type: LPT1 and the Base Addr : 0x378 on “Communication Setting” flame,and then the Speed: 47 on “E2PROM Device Setting” flame



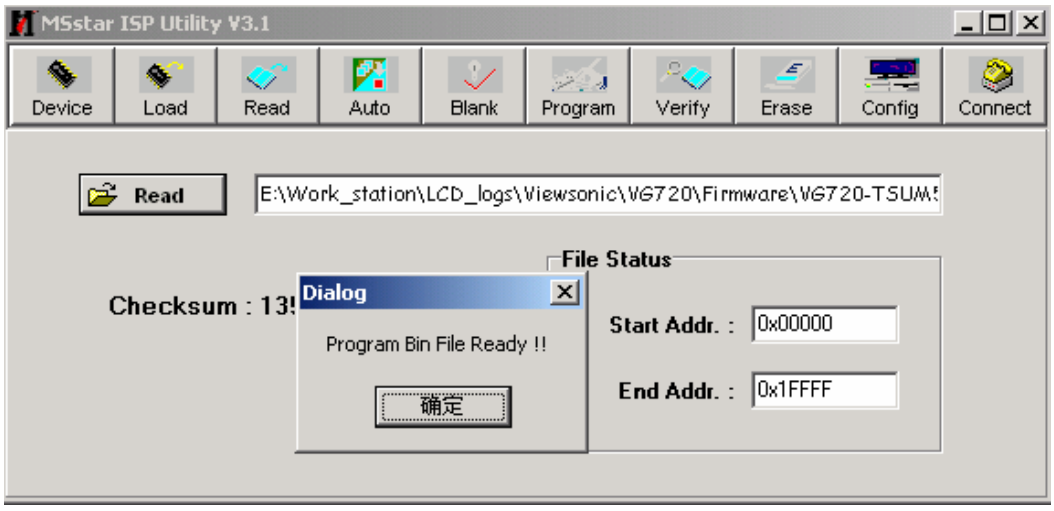
Step 4. Click “Connect” button. (On this step, if the connection is successful, the “Entry ISP Mode” Dialog will be showed. If not, the error dialog will be done.)



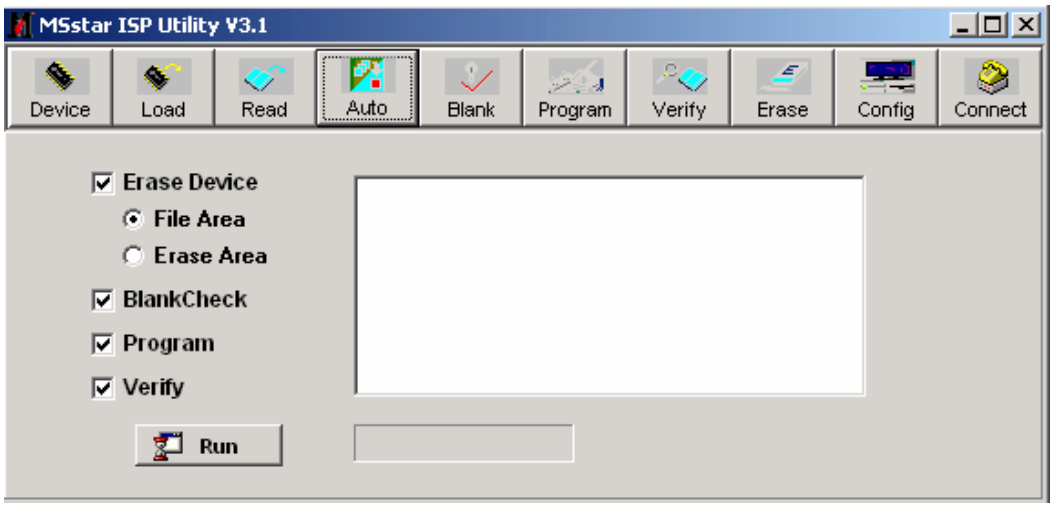
Step 5. Click “Device” button. Select the “PMC25LV010” or “SST25VF010” viewed on your set.



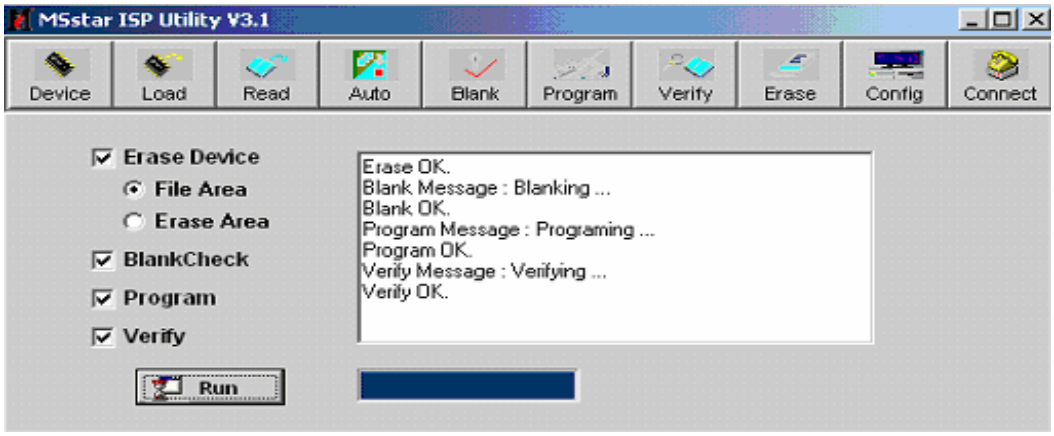
Step 6. Click “Read” button. Select the object bincode on your corresponding directory.



Step 7. Click “Auto” button. Execute the flashing action by clicking the “Run” button.



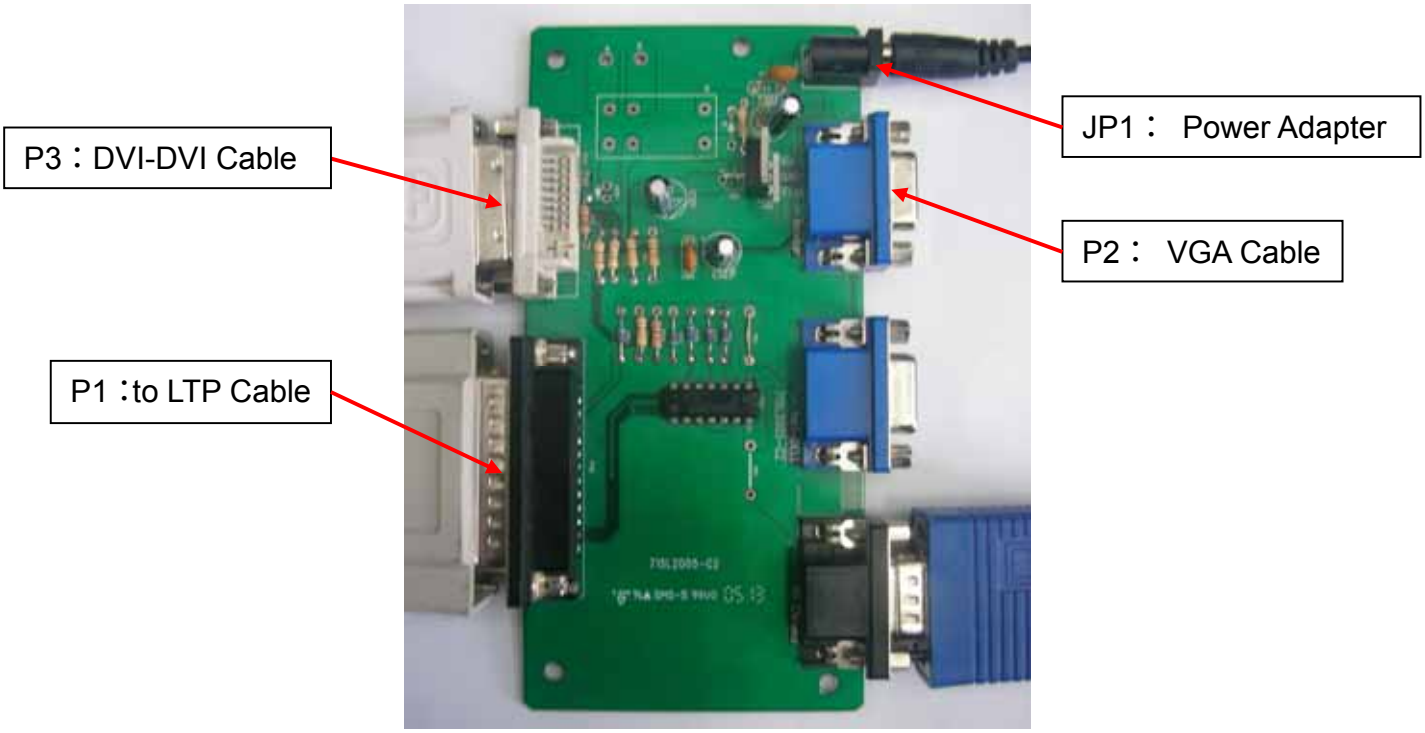
Step 8. If the flashing F/W has been completed, “Ok” message will be showed on the right TextBox.



Step 9. Unplug and replug power cord of VG720/VG920 set and then check the OSD operation and image on srceen.

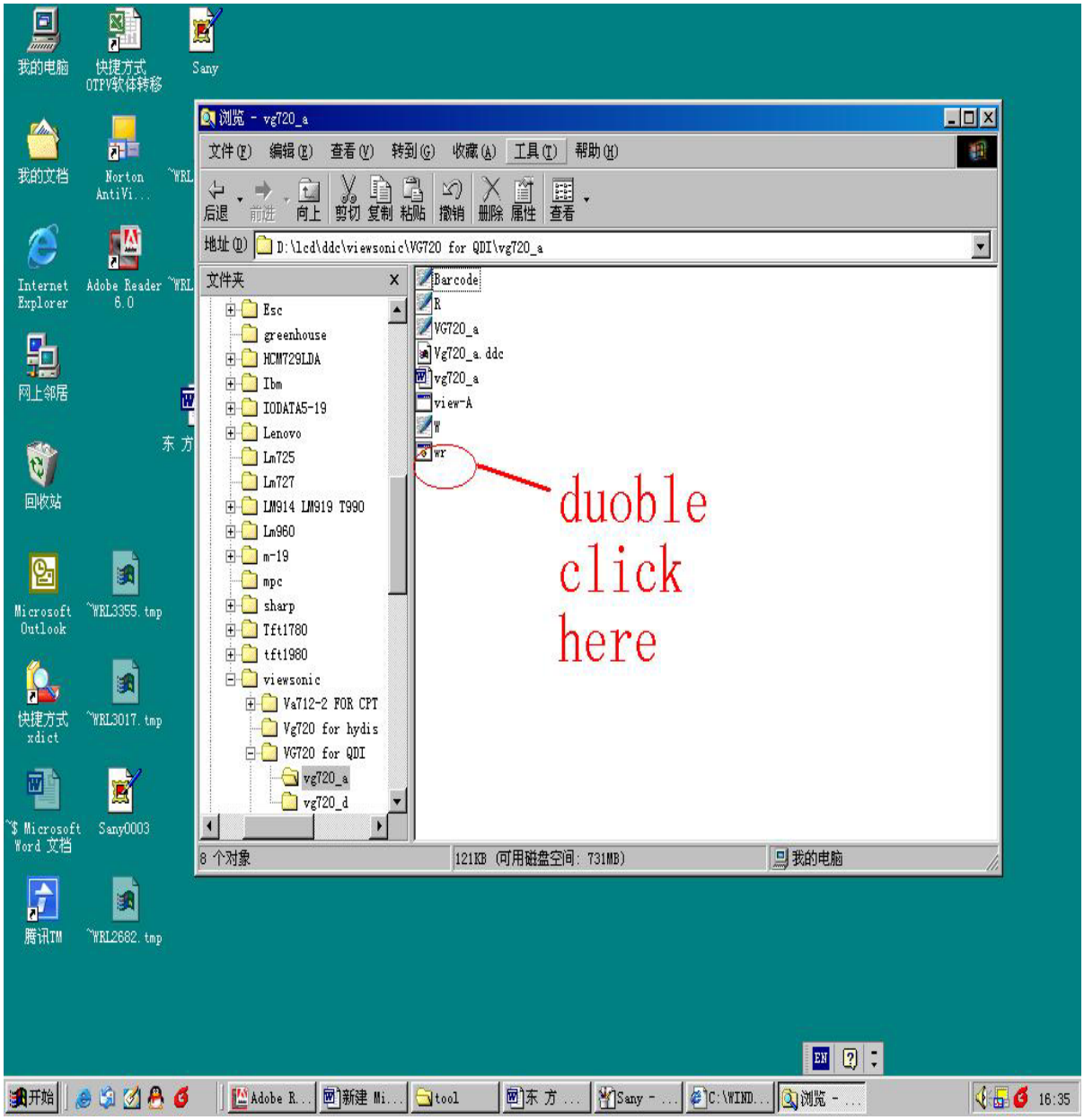
Step 10. At last, do “Memory Recall.”

3.2 Setup Procedure
3.2.1 Connect P2 and P4 of Fixture with VGA ports of VG720 VG720/VG920by VGA Cable.
3.2.2 Connect P3 of Fixture with DVI port of VG720 by DVI-DVI Cable.
3.2.3 Connect P1 of Fixture with Printer port of PC by LPT Cable.
3.2.4 Plug Power Adapter to Fixture.
3.2.5 Connect Power Cord to VG720/VG920 Monitor.
3.2.6 Connect PC to the additional monitor.

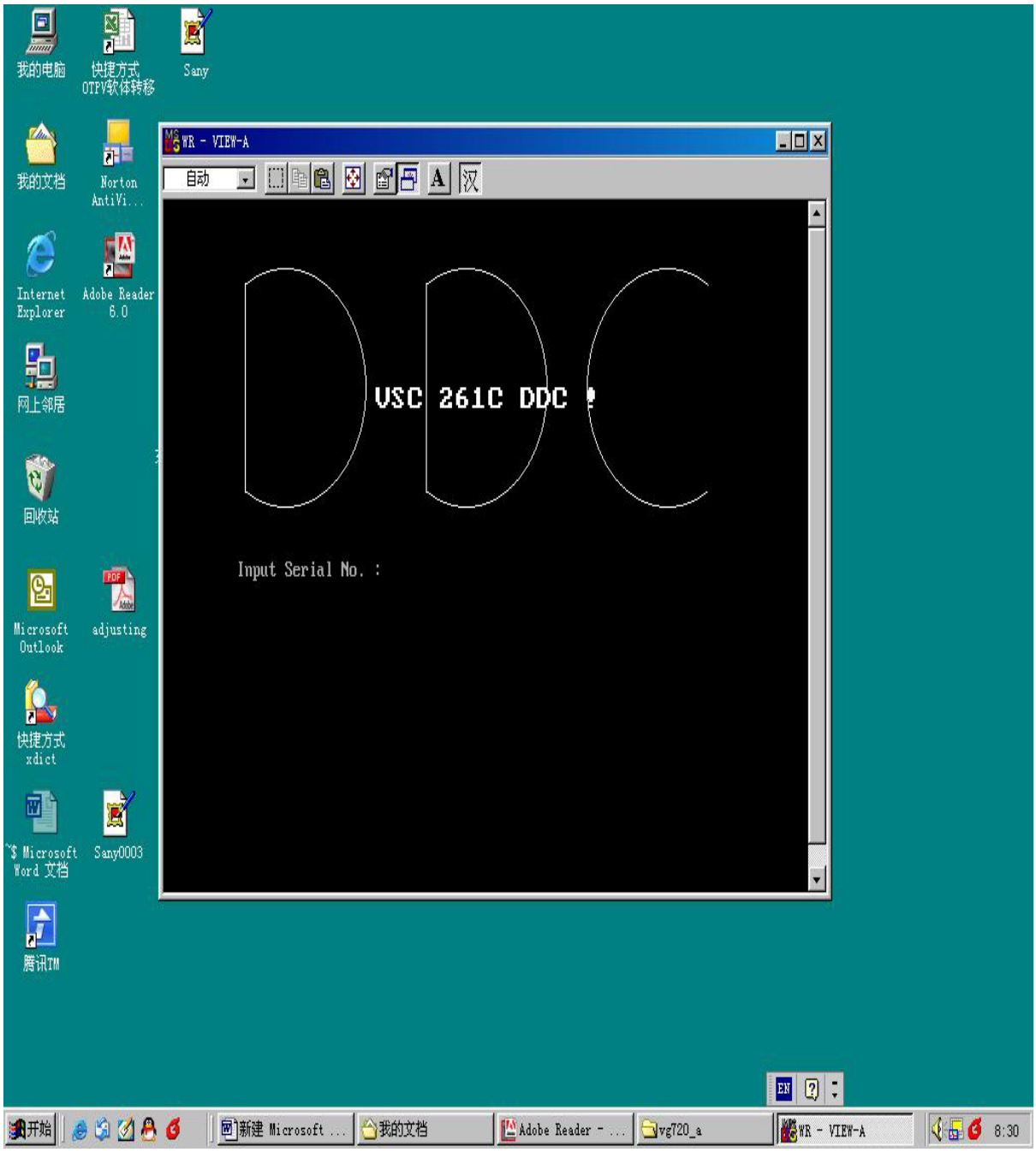


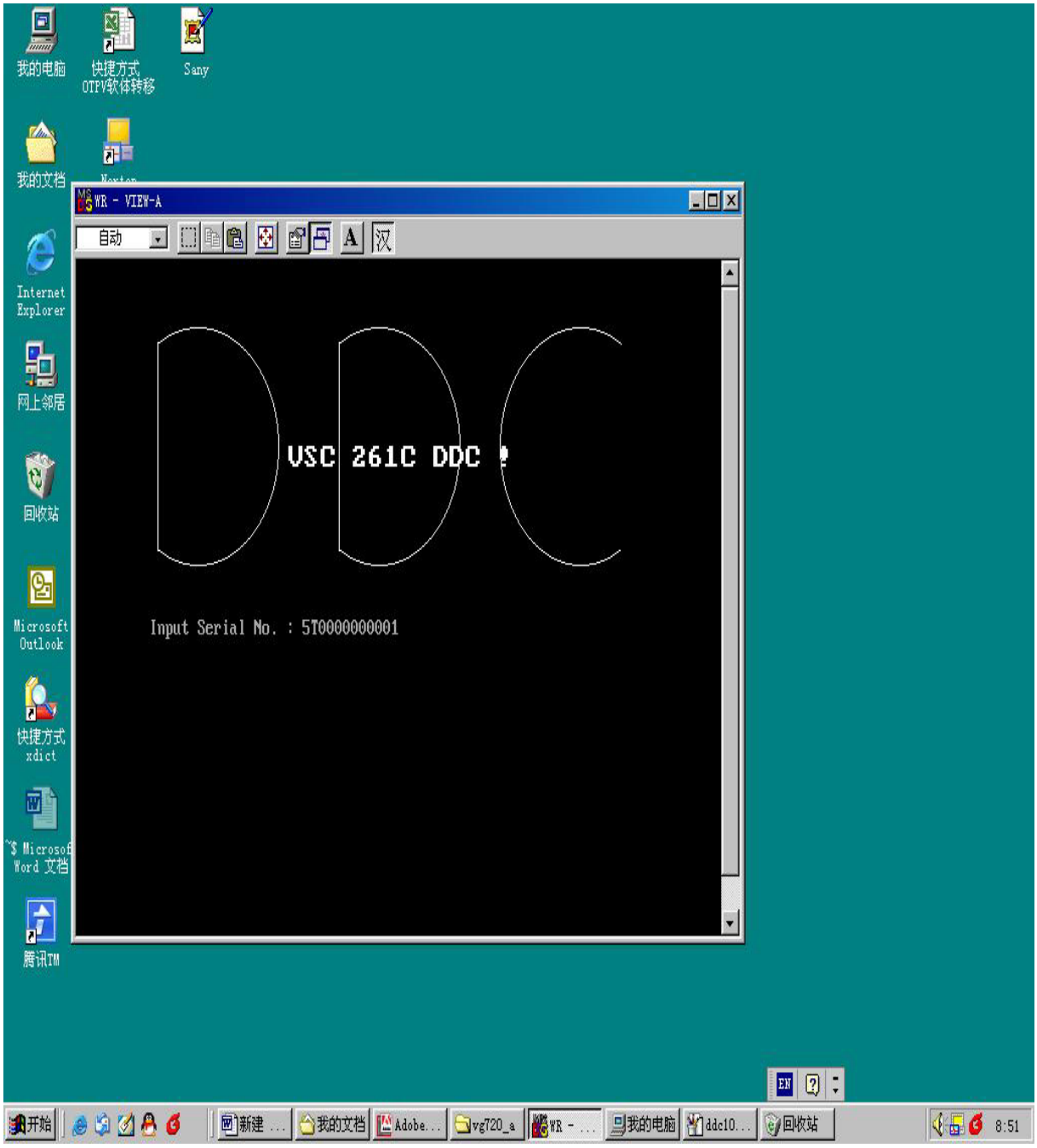
3.3 DDC Key In Procedure

Sep1.Select and execute DDc Key In program

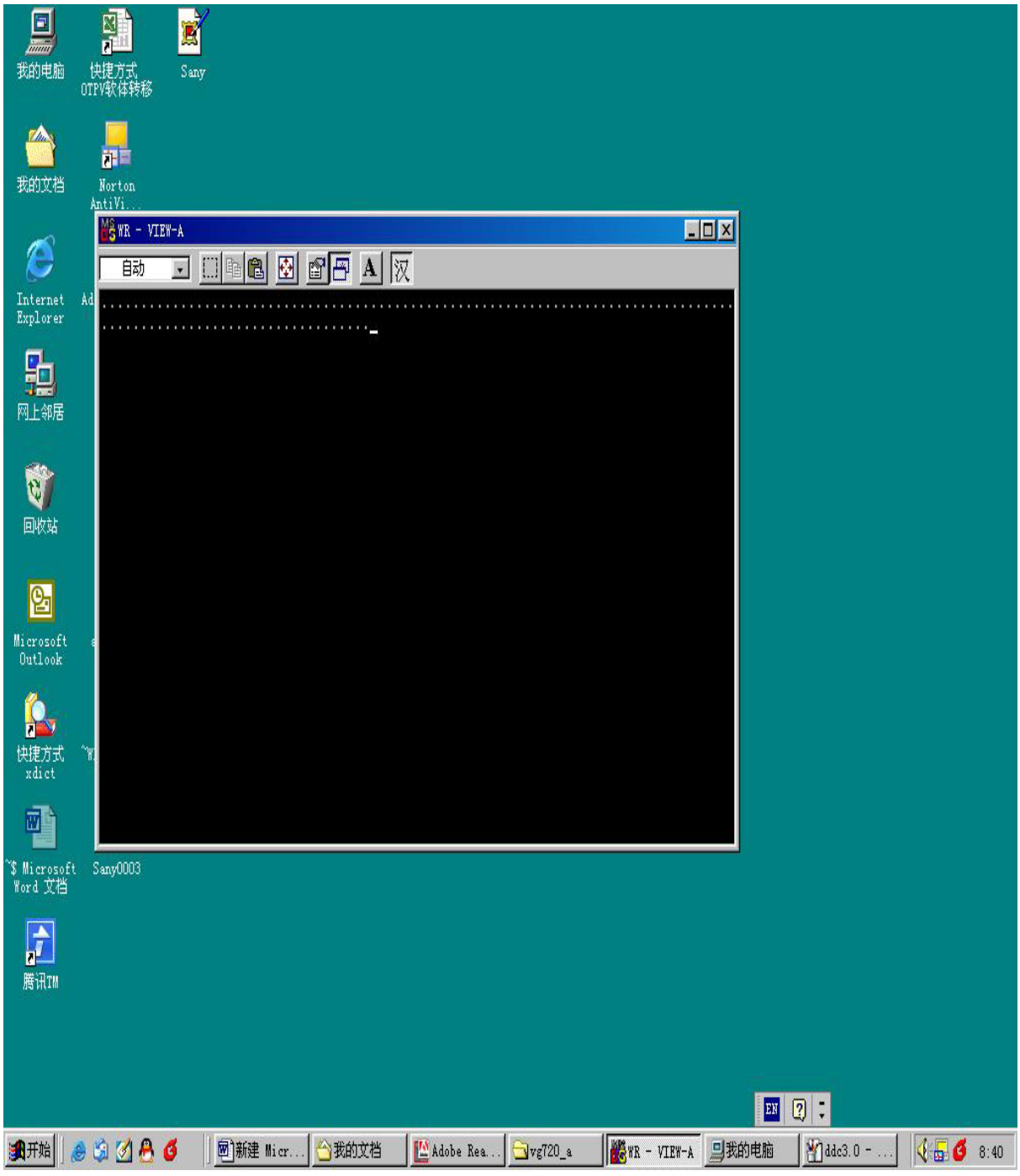


Sep2:Inpute the S/N and execute “Enter”

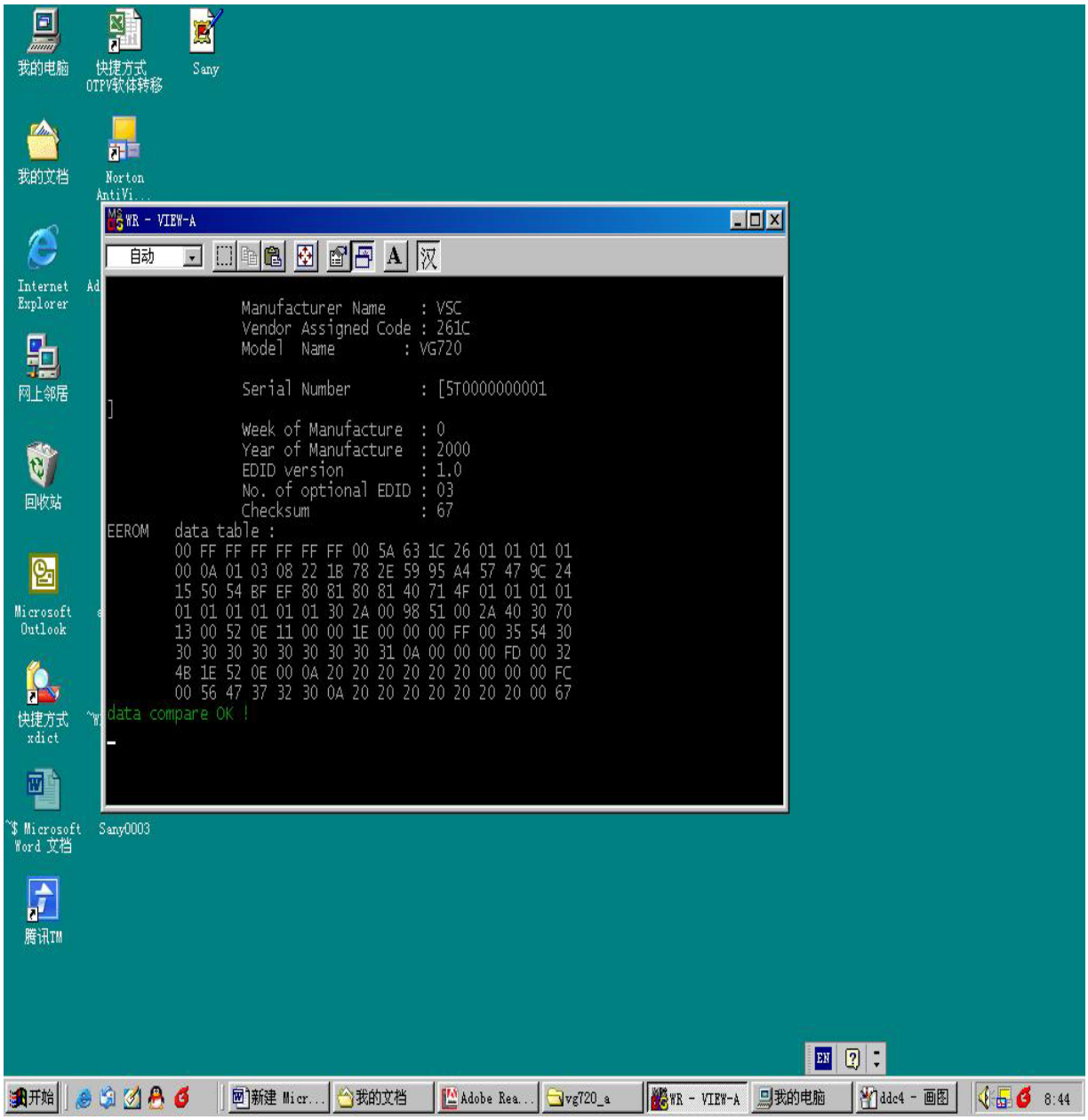



我的电脑
快捷方式
OTPV软体转移
Sany
我的文档
Internet
Explorer
网上邻居
回收站
Microsoft
Outlook
快捷方式
xdict
Microsoft
Word 文档
腾讯TM
WR - VIEW-A
自动
汉
VSC 261C DDC
Input Serial No. : 5T0000000001
开始
新建 ...
我的文档
Adobe...
vg720_a
WR - ...
我的电脑
ddc10...
回收站
8:51

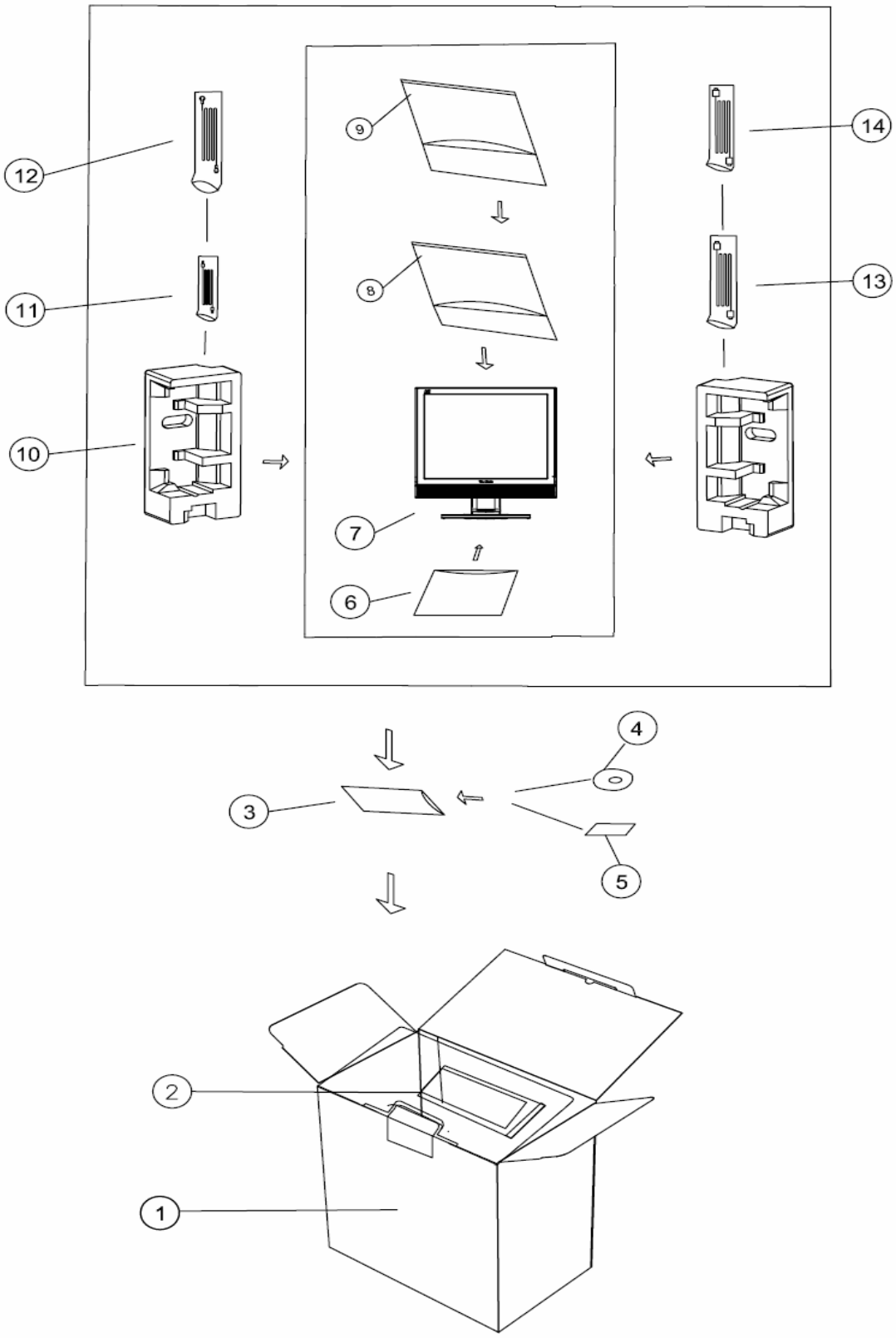
Sep3:Key the “Enter” and write the data



Sep4:If ddc program OK and show “data compare ok”


我的电脑
快捷方式 OTPV软体转移
Sany
我的文档
Norton AntiVi...
Internet Explorer
网上邻居
回收站
Microsoft Outlook
快捷方式 xdict
~$ Microsoft Word 文档
腾讯TM
Sany0003
WR - VIEW-A
自动
Manufacturer Name : VSC
Vendor Assigned Code : 261C
Model Name : VG720
Serial Number : [5T0000000001
]
Week of Manufacture : 0
Year of Manufacture : 2000
EDID version : 1.0
No. of optional EDID : 03
Checksum : 67
EEROM data table :
00 FF FF FF FF FF FF 00 5A 63 1C 26 01 01 01 01
00 0A 01 03 08 22 1B 78 2E 59 95 A4 57 47 9C 24
15 50 54 BF EF 80 81 80 81 40 71 4F 01 01 01 01
01 01 01 01 01 01 30 2A 00 98 51 00 2A 40 30 70
13 00 52 0E 11 00 00 1E 00 00 00 FF 00 35 54 30
30 30 30 30 30 30 30 30 31 0A 00 00 00 FD 00 32
4B 1E 52 0E 00 0A 20 20 20 20 20 20 00 00 00 FC
00 56 47 37 32 30 0A 20 20 20 20 20 20 20 00 67
data compare OK !
开始
新建 Micr...
我的文档
Adobe Rea...
vg720_a
WR - VIEW-A
我的电脑
ddc4 - 画图
8:44

5.7 Packing For Shipping



Packing Part List

ITEM	DESCRIPITON	PART NUMBER	Q'TY
1	CARTON	C 44G3943709 1A	1
2	HANDLE1	50G 600 2	1
	HANDLE2	50G 600 3	1
3	PE BAG	45G 76 28 V3	1
4	CD MANUAL	70G1701709 4B	1
5	QSG	41G7801709 4A	1
6	EPE COVER	45G 88609 4	1
7	MONITOR	T980KA6HKGVWABP	1
8	EPE COVER	45G 88609800	1
9	PE BAG	45G 88626 1	1
10	EPS	44G3943 1	1
		44G3943 2	1
11	AUDIO CABLE	89G 173 56507	1
12	POWER CORD	89G402A18N LS	1
13	SIGNAL CABLE	89G 728GAA902	1
14	DVI CABLE	89G1748GAA 11	1

Disassemble Process

1 Units Disassemble Process

1.1 *Tools*

- ✧ Glove
- ✧ Big cross screwdriver
- ✧ Small cross screwdriver
- ✧ Prize equipment or abandoned IC card
- ✧ Screw box
- ✧ Cushion
- ✧ Six angle sleeve spanner

1.2 Disassemble process

1、 Tide up the worktable, spread straight cushion, put the monitor on it, the front side adown.(**Picture 1**)
2、 Disassemble the 4 screws that fix the stand, remove the stand..(**Picture 2, 3, 4**)
3、 Disassemble the 2 screws of the back cover. （**Picture 5**）
4、 Use equipment or abandoned IC card to prize up the bezel through the bottom flute, as showed in the following the **picture 6**, and rip up the back cover downwards.(as showed in the following the **picture 7,8**)
5、 Disassemble the 6 screw M3*6MM through six angle sleeve spanner, showed in the following **picture 9**.
6、 Disassemble the 2 fixed screws in the shield, remove the shield as the direction arrowhead showed, refer to the following **picture ,10**.
7、 Disassemble the 5 screws and 4 pins of the PWPC board, remove the PWPC board.(symbolized the following **picture 11** with red color)
8、 Disassemble the 3 screws and 3 pins of the main board, remove the main board. (symbolized the following **picture 11** with blue color)
9、 Disassemble the 2 screws of the audio board, remove the audio board. (symbolized the following **picture 11,12** with yellow color)
10、Disassemble the 4 screws of the speaker, remove the speaker, refer to the following **picture 13**
11、Disassemble the 4 fixed screws of the main frame, as showed in the following the **picture 14**
12、Disassemble the connect pins of the key board, as showed in the following the **picture 15.** remove the bezel as the direction arrowhead showed, refer to the following **picture ,16,17**.
13、Disassemble the 4 fixed screws of the panel, remove the main frame, as showed in the following the **picture 18,19**. Do not damage the cable of the panel.
14、That's all. The disassemble process of the unit is over.

1.3 Show pictures：

（Picture 1）

（Picture 2）

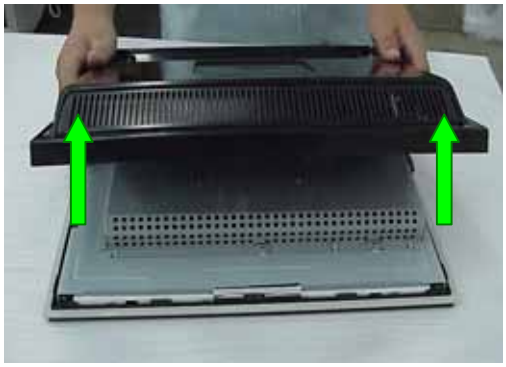
（Picture 3）

（Picture 4）

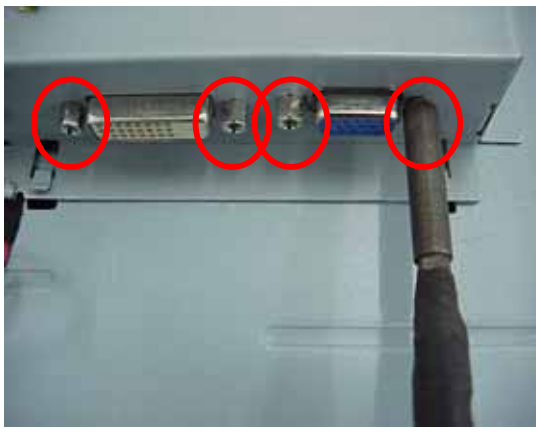
（Picture 5）

（Picture 6）

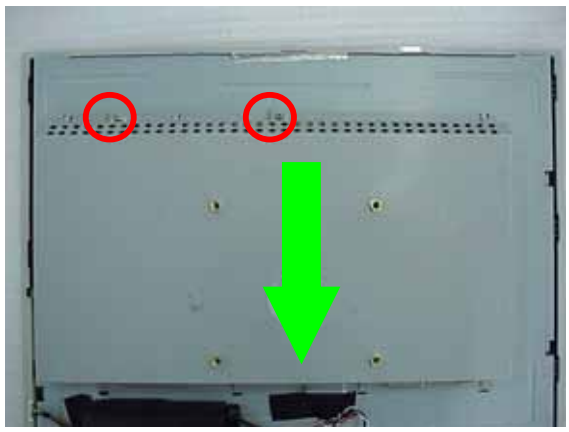
（Picture 7）



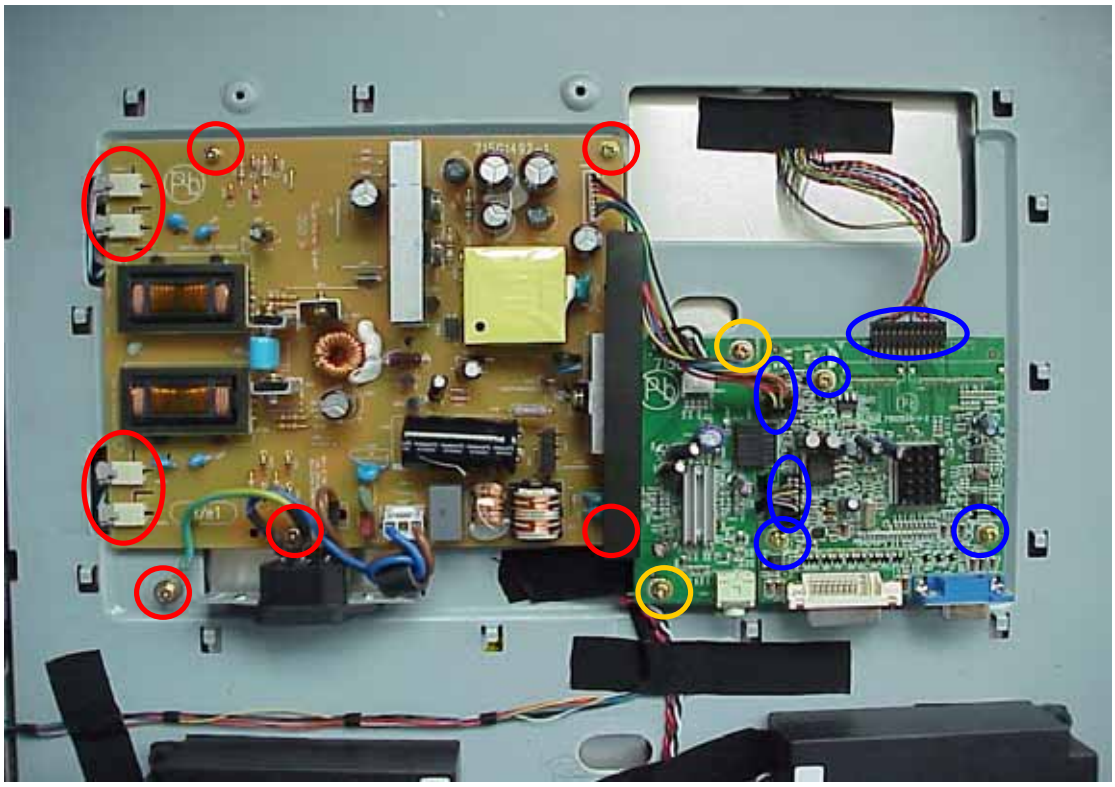
（Picture 8）



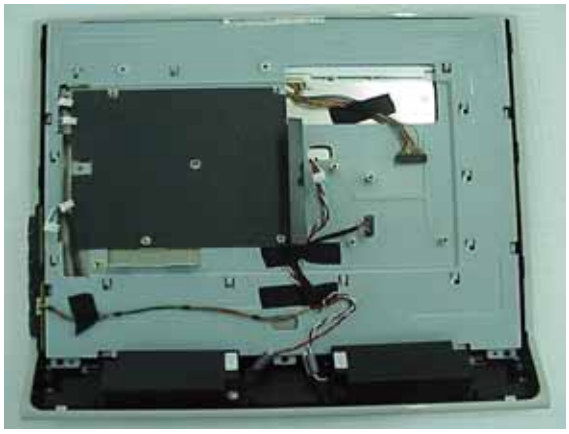
(Picture 9)



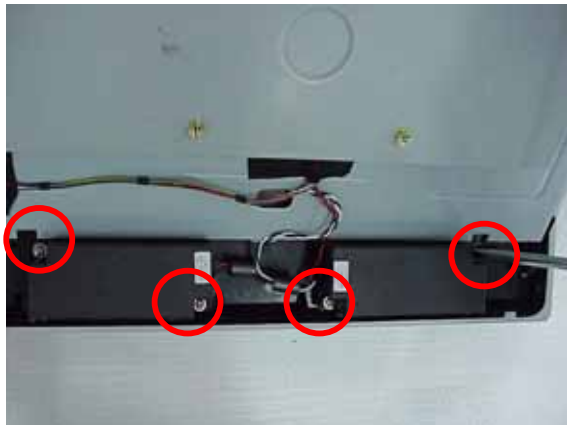
(Picture 10)



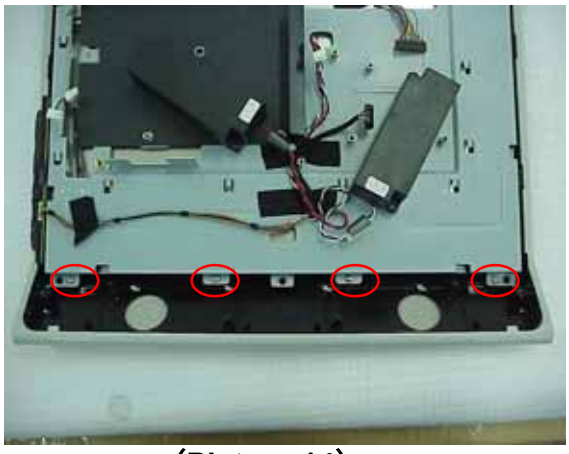
(Picture 11)



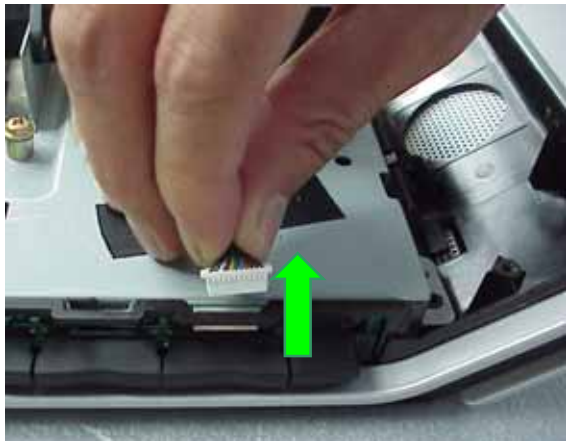
(Picture 12)



(Picture 13)



(Picture 14)



(Picture 15)

(Picture 16)

(Picture 17)

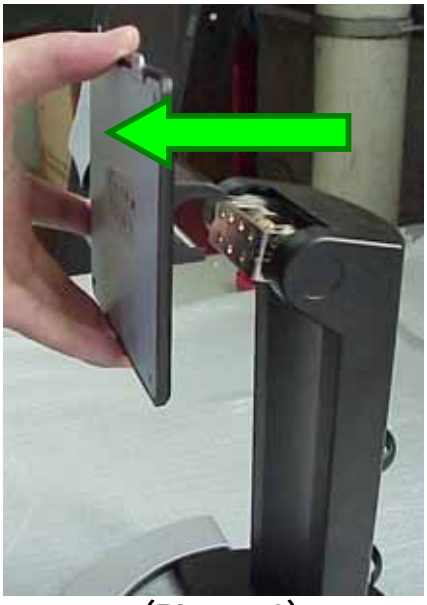
(Picture 18)

(Picture 19)

(Picture 20)

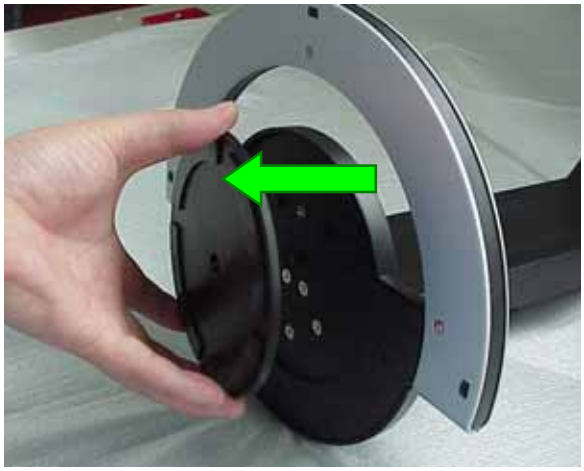
2 Stand A'ssy Disassemble Process

(Picture 1)

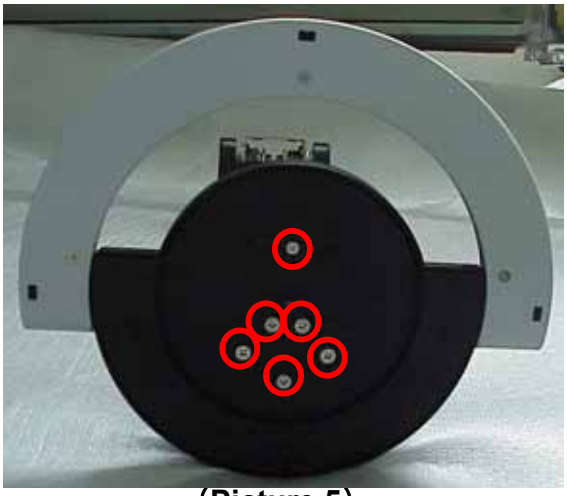


(Picture 2)

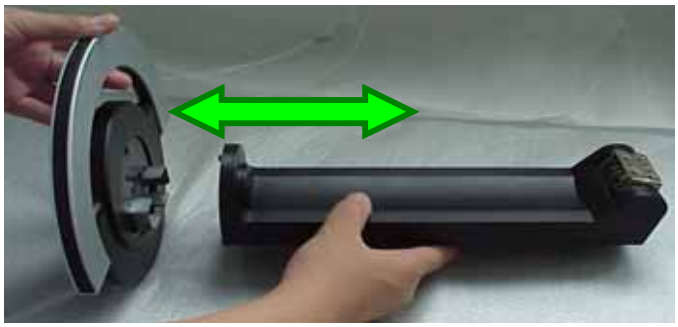
(Picture 3)



(Picture 4)



(Picture 5)



(Picture 6)

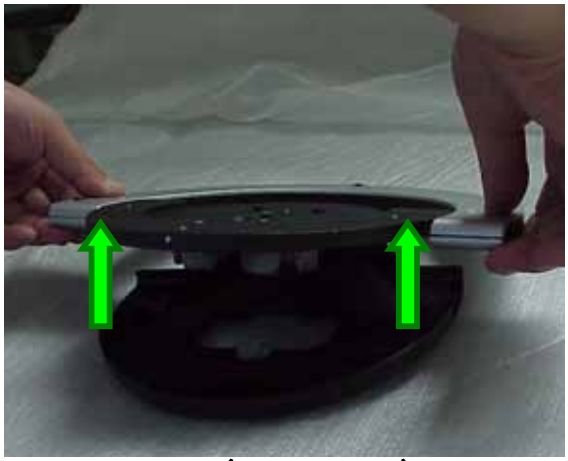
(Picture 7)

(Picture 8)

(Picture 9)

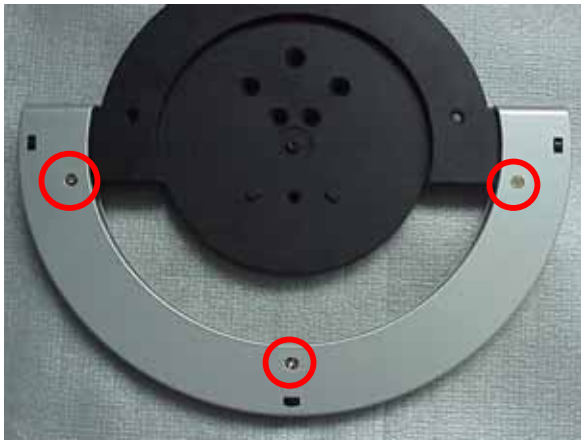
(Picture 10)

(Picture 11)



(Pictures 12)

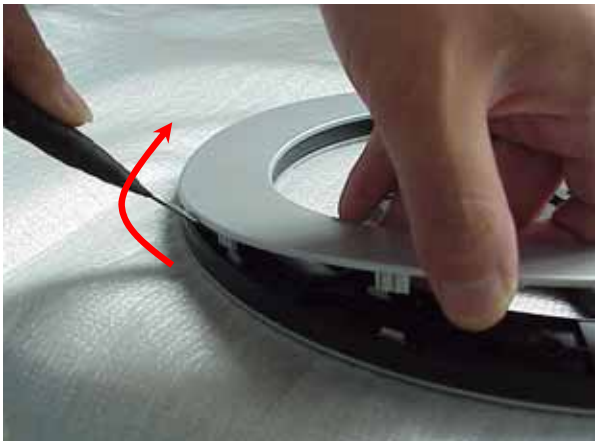
(Picture 13)



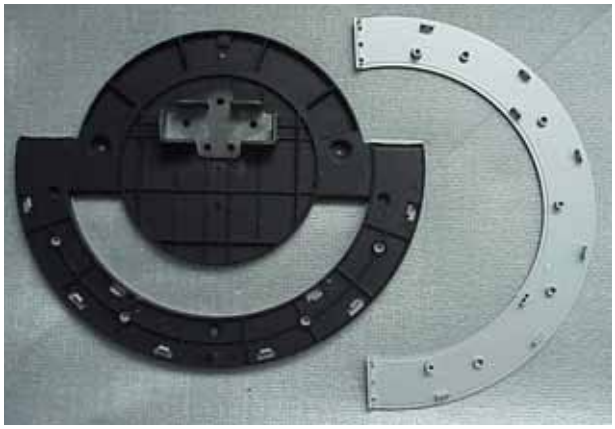
(Picture 14)

(Picture 15)

(Picture 16)

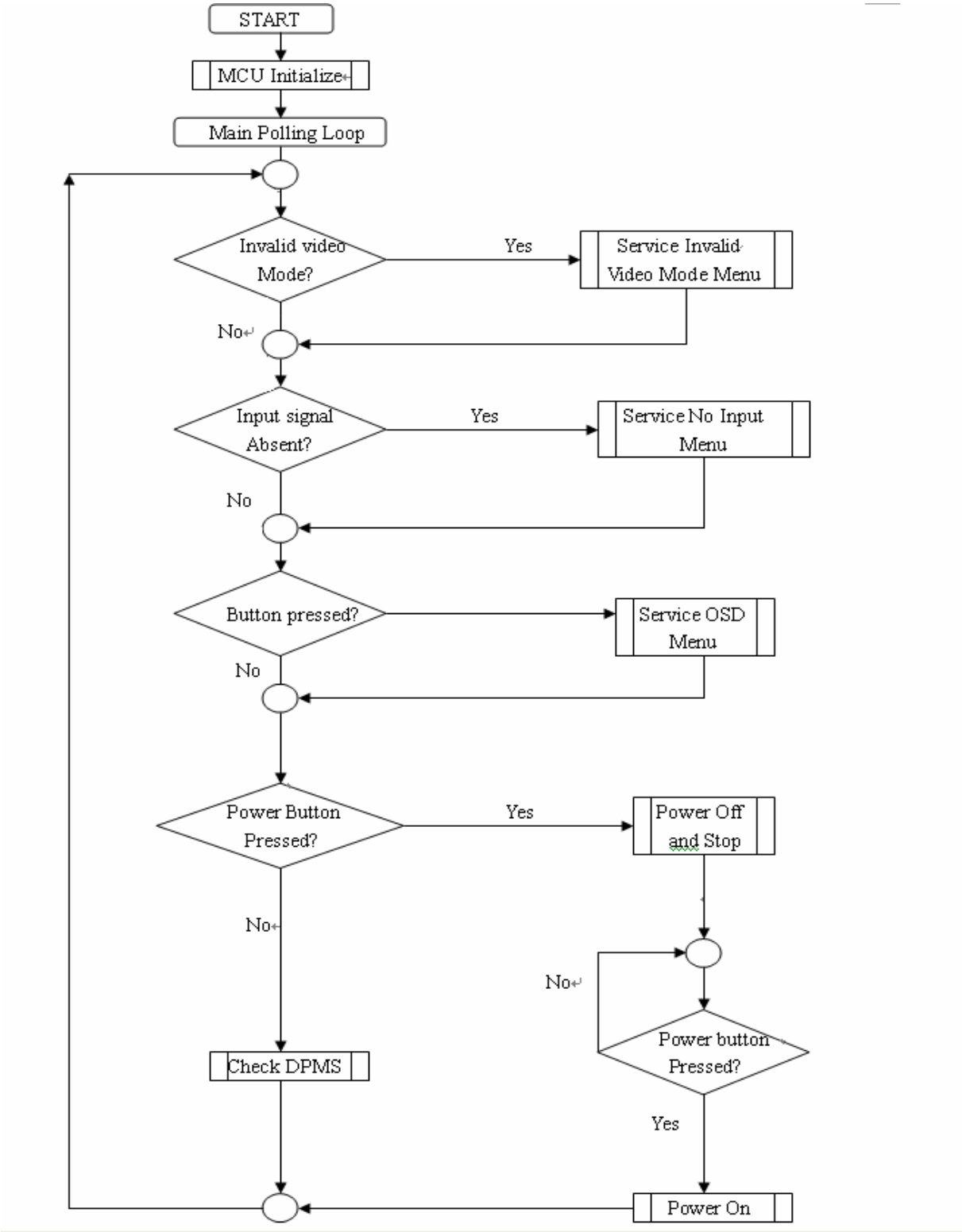


(Picture 17)



(Picture 18)

6. Trouble Shooting Flow Chart



7. Recommended Spare Parts List

RECOMMENDED SPARE PARTS LIST (VG920-1)

ViewSonic Model Number: VS10790

Rev: 1a

Serial No. Prefix: PT1

Item	Description		ECR/ECN	ViewSonic P/N	Ref. P/N	Location	Universal number#	Q'ty
1	**Accessories:**	POWER CORD		A-00003716	89G402A18N LS			1
2	**Board Assembly:**	AUPC BOARD		B-00003717	AUPC980A8P			1
3		CONVERSINON BOARD		B-00003769	CBPC980KA6VWP			1
4		KEY BOARD		B-00003719	KEPC980KB8SMTP			1
5		POWER BOARD		B-00003770	PWPC1942AUV1P			1
6	**Cabinets:**	BEZEL		C-00003771	34G1687AKR B			1
7		REAR COVER		C-00003772	34G1688 KR B			1
8	**Cables:**	AUDIO CABLE		CB-00003723	89G 173 56507			1
9		CABLE		CB-00003773	95G8018 30 26			1
10		DVI SIGNAL CABLE		CB-00003725	89G1748LAA 11			1
11		SIGNAL CABLE		CB-00003768	89G 728HAA902			1
12		WIRE HARNESS		CB-00003726	95G8014 16921			1
13	**Documentation:**	8ms STICKER		DC-00003498	40G581B709 3A			1
14		CARTON LABEL		DC-00003727	40G 459709 1B			1
15		CD MANUAL		DC-00003774	70G1701709 4A			1
16		H/V WARNING LABEL		DC-00003729	40G 459709 4A			1
17		Hg LABEL		DC-00003730	40G457B709 1A			1
18		HI-POT LABEL FOR 17-LCD		DC-00003731	40G 459709 5A			1
19		ID VG920		DC-00003775	40G 190709 1A			1
20		QSG		DC-00003733	41G7801709 4A			1
21		S/N LABEL		DC-00003734	40G 459709 2B			1
22	**Electronic**	19" LCD PANEL		E-00003776	750GLU90N45			1
23	**Components:**	24LC16B/SNG SOIC-8PIN		E-00003736	56G113356A	U403		1
24		AIC1084-33PM TO-263		E-00003737	56G 563 7	U702		1
25		IC M24C02-WMN6TP		E-00003738	56G1133 34	U404		1
26		IC MICROPROCESSOR MAX810		E-00003739	56G 643 6	U406		1
27		ID TPA3003D2PF BRG4 TQFP		E-00003740	56G 616 6	U601		1
28		PM25LV010-25SCE		E-00003777	56G1133 63AA2	U402		1
29		TSUM56AK-LF PQFP-100		E-00003742	56G 562108	U401		1
30	**Hardware:**	HINGE		HW-00003778	37G 547 1			1
31		MAIN FRAME		HW-00003779	15G8235 1			1
32		SCREW		HW-00003746	M1G1030 6225			4
33		SCREW		HW-00003780	M1G2940 10225			4
34		SCREW		HW-00003747	M1G1730 6128			4
35		SCREW		HW-00003781	Q1G 130 12120			1
36		SCREW		HW-00003782	Q1G1030 12120			4
37		SCREW		HW-00003750	Q1G 330 6120			4
38	**Miscellaneous:**	BASE DIE CASTING		M-00003751	20G 036 1			1
39	**Packing Material:**	CARTON		P-00003783	C 44G3943709 1A			1
40		EPE BAG		P-00003784	45G 88609800			1
41		EPE COVER		P-00003753	45G 88609 4			1
42		EPS(L)		P-00003785	44G3943 1			1
43		EPS(R)		P-00003786	44G3943 2			1
44		PE BAG		P-00003757	45G 76 28 V3			1
45		PE BAG FOR MONITOR		P-00003787	45G 88626 1			1
46	**Plastics:**	BASE		PL-00003759	34G1696 KR B			1
47		BASE FRONT BOTTOM		PL-00003760	34G1695 KR B			1
48		BASE FRONT TOP		PL-00003761	34G1694 KR B			1
49		COSMETIC BOTTOM		PL-00003788	34G1690 KD B			1
50		COSMETIC TOP		PL-00003789	34G1689AKD B			1
51		STAND FRONT		PL-00003790	34G1692 KR B			1
52		STAND REAR		PL-00003791	34G1693 KR B			1
53		SWIVEL COVER		PL-00003766	34G1697 KR X			1
54		VESA COVER		PL-00003767	34G1691 KR B			1

Remark 1: Above listed items are examples, supplier can expand the rows to add more necessary items.

Remark 2: All revised RSPLs with newly added items or any change made should be highlighted and correlated with the ECN/ECR approved by ViewSonic Corporation. This is to eliminate repeated cross checks of each item between this version and prior versions.

RECOMMENDED SPARE PARTS LIST (VG920-1)

ViewSonic Model Number: VS10790

Serial No. Prefix: PT1 **Rev: 1b**

Item	Description		ECR/ECN	ViewSonic P/N	Ref. P/N	Location	Universal number#	Q'ty
1	**Accessories:**	POWER CORD(AMERICA)		A-00003716	89G402A18N LS			1
2		POWER CORD(EUROPE)		A-00004962	89G404A18N LS			1
3		POWER CORD(CHINA)		A-00006663	89G414A18N LS			1
4		POWER CORD(AP)		A-00006664	89G420A18N LS			1
5		POWER CORD(AUSTRALIA)		A-00006665	89G412A18NIS3			1
6	**PC Board**	AUPC BOARD		B-00003717	AUPC980A8P			1
7	**Assembly:**	KEY BOARD		B-00003719	KEPC980KB8SMTP			1
8		CONVERSINON BOARD(AU PANEL)		B-00003769	CBPC980KA6VWP			1
9		POWER BOARD(AU PANEL)		B-00003770	PWPC1942AUV1P			1
10		CONVERSINON BOARD(HYDIS PANEL)		B-00006666	CBPC980KK6VWP			1
11		CONVERSINON BOARD(HSD PANEL)		B-00006667	CBPC980KH6VWP			1
12		POWER BOARD(HYDIS)		B-00006668	PWPC1942HDV1P			1
13		POWER BOARD(HSD PANEL)		B-00006669	PWPC1942HSV1P			1
14	**Cabinets:**	BEZEL		C-00003771	34G1687AKR B			1
15		REAR COVER		C-00003772	34G1688 KR B			1
16	**Cables:**	AUDIO CABLE		CB-00003723	89G 173 56507			1
17		WIRE HARNESS		CB-00003726	95G8014 16921			1
18		SIGNAL CABLE		CB-00006670	89G 728GAA902			1
19		WIRE HARNESS		CB-00006677	95G8018 30906 Q			1
20		DVI SIGNAL CABLE		CB-00006701	89G1748GAA 11			1
21	**Documentation:**	CARTON LABEL		DC-00003727	40G 459709 1B			1
22		H/V WARNING LABEL		DC-00003729	40G 459709 4A			1
23		Hg LABEL		DC-00003730	40G457B709 1A			1
24		HI-POT LABEL FOR 17-LCD		DC-00003731	40G 459709 5A			1
25		S/N LABEL		DC-00003734	40G 459709 2B			1
26		8ms STICKER		DC-00005639	40G581B709 3A			1
27		CD MANUAL(AU PANEL）		DC-00006672	J70G1701709 4C			1
28		QSG		DC-00006673	J41G7801709 4B			1
29		CD MANUAL(HSD PANEL)		DC-00006675	70G1901709 1A			1
30		CD MANUAL(HYDIS PANEL)		DC-00006676	70G1701709 7B			1
31	**Electronic**	24LC16B/SNG SOIC-8PIN		E-00003736	56G113356A	U403		1
32	**Components:**	IC M24C02-WMN6TP		E-00003738	56G1133 34	U404		1
33		IC MICROPROCESSOR MAX810		E-00003739	56G 643 6			1
34		TSUM56AK-LF PQFP-100		E-00003742	56G 562108	U401		1
35		PM25LV010-25SCE(AU PANEL)		E-00003777	56G1133 63AA2	U402		1
36		19" LCD PANEL(HYDIS PANEL)		E-00005169	750GLK90E11			1
37		AIC1084-33PM TO-263		E-00005651	56G 563 7	U702		1
38		19" LCD PANEL(HSD PANEL)		E-00006674	750GLU90N45 12			1
39	**Hardware:**	SCREW		HW-00003746	M1G1030 6225			4
40		SCREW		HW-00003750	Q1G 330 6120			4
41		HINGE		HW-00003778	37G 547 1			1
42		MAIN FRAME(AU PANEL)		HW-00003779	15G8235 1			1
43		SCREW		HW-00003780	M1G2940 10225			4
44		SCREW		HW-00003781	Q1G 130 12120			1
45		SCREW		HW-00003782	Q1G1030 12120			4
46		SCREW		HW-00005628	M1G1730 6128			4
47	**Miscellaneous:**	BASE DIE CASTING		M-00003751	20G 036 1			1
48		MAIN FRAME(HYDIS PANEL)		M-00006678	15G8235 2			1
49		MAIN FRAME(HSD PANEL)		M-00006686	15G8235 3			1
50	**Packing**	EPE COVER		P-00003753	45G 88609 4			1
51	**Material:**	CARTON(HYDIS PANEL）		P-00003783	C 44G3943709 1A			1
52		EPS(L)		P-00003785	44G3943 1			1
53		EPS(R)		P-00003786	44G3943 2			1
54		PE BAG FOR MONITOR		P-00003787	45G 88626 1			1
55		PE BAG		P-00005642	45G 76 28 V3			1
56		EPE BAG		P-00006479	45G 88609800			1
57		CARTON(AU/HSD PANEL）		P-00006671	J44G3943709 1B			1
58	**Plastics:**	BASE		PL-00003759	34G1696 KR B			1
59		BASE FRONT BOTTOM		PL-00003760	34G1695 KR B			1
60		BASE FRONT TOP		PL-00003761	34G1694 KR B			1
61		SWIVEL COVER		PL-00003766	34G1697 KR X			1
62		VESA COVER		PL-00003767	34G1691 KR B			1
63		COSMETIC BOTTOM		PL-00003788	34G1690 KD B			1
64		COSMETIC TOP		PL-00003789	34G1689AKD B			1
65		STAND FRONT		PL-00003790	34G1692 KR B			1
66		STAND REAR		PL-00003791	34G1693 KR B			1

Remark 1: Above listed items are examples, supplier can expand the rows to add more necessary items.

Remark 2: All revised RSPLs with newly added items or any change made should be highlighted and correlated with the ECN/ECR approved by ViewSonic Corporation. This is to eliminate repeated cross checks of each item between this version and prior versions.

BOM LIST (VG920-1)

ViewSonic Model Number: VS10790

Rev: 1a

Serial No. Prefix: PT1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
1	B-00003717	AUPC980A8P	AUPC BOARD			1
2	B-00003769	CBPC980KA6VWP	CONVERSION BOARD			1
3	B-00003719	KEPC980KB8SMTP	KEY BOARD			1
4	B-00003770	PWPC1942AUV1P	POWER BOARD			1
5	#N/A	11G 800 2	SPACER SUPPORT (RCM-5)			1
6	#N/A	12G 434 1	RUBBER PAD			4
7	#N/A	12G 437 1	THER MAL PAD			1
8	#N/A	15G8004 1	ROLLER PIN			4
9	HW-00003779	15G8235 1	MAIN FRAME			1
10	#N/A	15G8237 1	VESA COVER			1
11	#N/A	15G8239 1	Kensington bracket			1
12	M-00003751	20G 036 1	BASE DIE CASTING			1
13	#N/A	23G3178709 4A	VSC17-LCD FRONT LOGO			1
14	#N/A	23G3178709 6A	BIRD LOGO (E015-006)			1
15	#N/A	33G4915 KR L	FUNCTION BUTTON			1
16	#N/A	33G4916 1	POWER LENS			1
17	#N/A	33G4917 KR X	ROLLER			4
18	#N/A	33G4918 KR X	CABLE CLIP			2
19	C-00003771	34G1687AKR B	BEZEL			1
20	C-00003772	34G1688 KR B	REAR COVER			1
21	PL-00003789	34G1689AKD B	COSMETIC TOP			1
22	PL-00003788	34G1690 KD B	COSMETIC BOTTOM			1
23	PL-00003767	34G1691 KR B	VESA COVER			1
24	PL-00003790	34G1692 KR B	STAND FRONT			1
25	PL-00003791	34G1693 KR B	STAND REAR			1
26	PL-00003761	34G1694 KR B	BASE FRONT TOP			1
27	PL-00003760	34G1695 KR B	BASE FRONT BOTTOM			1
28	PL-00003759	34G1696 KR B	BASE			1
29	PL-00003766	34G1697 KR X	SWIVEL COVER			1
30	HW-00003778	37G 547 1	HINGE ASS'Y			1
31	DC-00003775	40G 190709 1A	ID VG920			1
32	#N/A	40G 45760819A	LABEL			1
33	DC-00003727	40G 459709 1B	CARTON LABEL			1
34	DC-00003734	40G 459709 2B	S/N LABEL			1
35	DC-00003729	40G 459709 4A	H/V WARNING LABEL			1
36	DC-00003731	40G 459709 5A	HI-POT LABEL FOR 17-LCD			1
37	#N/A	40G 58162435A	MANUAL P/N LABEL			1
38	DC-00003730	40G457B709 1A	Hg LABEL			1
39	DC-00003498	40G581B709 3A	8ms STICKER			1
40	DC-00003733	41G7801709 4A	QSG			1
41	#N/A	44G3231 15	EVA WASHER			1
42	P-00003785	44G3943 1	EPS(L)			1
43	P-00003786	44G3943 2	EPS(R)			1
44	P-00003757	45G 76 28 V3	PE BAG			1
45	#N/A	45G 77 3	TRANSPARENT SHEET			173
46	P-00003753	45G 88609 4	EPE COVER			1
47	P-00003784	45G 88609800	EPE BAG			1
48	P-00003787	45G 88626 1	PE BAG FOR MONITOR			1
49	#N/A	50G 600 1 W	TAPE			74
50	#N/A	50G 600 2	HANDLE1			1
51	#N/A	50G 600 3	HANDLE2			1
52	#N/A	52G 1185	MIDDLE TAPE FOR CARTON			60
53	#N/A	52G 1185 24	TAPE			65
54	#N/A	52G 1216 A	ALUMINIUM TAPE			1
55	#N/A	52G 2191 D	TAPE			75
56	#N/A	52G6020 5	PROTECT FILM			1
57	#N/A	52G6022 20	SMALL TAPE			100
58	#N/A	52G6025 11907	Mylar sheet top			1
59	#N/A	52G6025 11908	MYLAR BOTTOM			1
60	DC-00003774	70G1701709 4A	CD MANUAL			1
61	#N/A	78G 334 5	SPEAKER			1
62	#N/A	85G 713 1	MAIN SHIELD			1
63	CB-00003723	89G 173 56507	AUDIO CABLE			1
64	#N/A	89G 728GAA902	SIGNAL CABLE			1
65	A-00003716	89G402A18N LS	POWER CORD			1
66	CB-00003725	89G1748LAA 11	DVI SIGNAL CABLE			1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
67	CB-00003726	95G8014 16921	WIRE HARNESS			1
68	CB-00003773	95G8018 30 26	WIRE HARNESS			1
69	#N/A	M1G 130 6120	SCREW			2
70	#N/A	M1G 130 6225	SCREW M3X6			4
71	#N/A	M1G 140 8120	SCREW M4X8			4
72	HW-00003745	M1G 140 10120	SCREW M4X10			5
73	#N/A	M1G 330 4128	SCREW			2
74	HW-00003746	M1G1030 6225	SCREW M3X6			1
75	#N/A	M1G1140 6128	SCREW			1
76	HW-00003747	M1G1730 6128	SCREW			4
77	HW-00003747	M1G1730 6128	SCREW			2
78	HW-00003747	M1G1730 6128	SCREW			3
79	HW-00003780	M1G2940 10225	M4*10			4
80	#N/A	Q1G 130 6 47	SCREW			3
81	#N/A	Q1G 130 8120	SCREW			3
82	HW-00003781	Q1G 130 12120	SCREW			1
83	HW-00003750	Q1G 330 6120	SCREW M3X6MM			2
84	HW-00003750	Q1G 330 6120	SCREW M3X6MM			4
85	#N/A	Q1G 330 8120	SCREW			2
86	HW-00003749	Q1G1030 10120	M3*10			2
87	HW-00003749	Q1G1030 10120	M3*10			4
88	E-00003776	750GLU90N45	19"LCD PANEL			1
89	P-00003783	C 44G3943709 1A	CARTON			1
90	**B-00003717**	**AUPC980A8P**	**AUPC BOARD**			
91	#N/A	AUPC980A8SMTP	AUPC BOARD SMT			1
92	#N/A	33G3802 4H	WAFER 4P RIGHT ANGLE	CN603		1
93	#N/A	33G802414C H	WAFER	CN602		1
94	#N/A	67G215B471 3H	LOW ESR CAP 470UF 16V 8*	C620		1
95	#N/A	67G305V100 7N GP	10UF50V KME50VB10-M-TP5	C601		1
96	#N/A	67G305V100 7N GP	10UF50V KME50VB10-M-TP5	C605		1
97	#N/A	67G305V100 7N GP	10UF50V KME50VB10-M-TP5	C617		1
98	#N/A	67G305V100 7N GP	10UF50V KME50VB10-M-TP5	C625		1
99	#N/A	88G 30214K	PHONE JACK 5PIN	CN601		1
100	#N/A	90G6119 1	HEATSINK			1
101	**#N/A**	**AUPC980A8SMTP**	**AUPC BOARD SMT**			
102	E-00003740	56G 616 6	ID TPA3003D2PF BRG4 TQFP	U601		1
103	E-00003517	61L0603000	CHIPR 0OHM +-5% 1/10W	R602		1
104	#N/A	61L0603102	CHIPR 1KOHM +-5% 1/10W	R608		1
105	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R601		1
106	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R609		1
107	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R610		1
108	#N/A	61L0603124	CHIP 120KOHM 1/10W	R604		1
109	#N/A	61L0603124	CHIP 120KOHM 1/10W	R607		1
110	#N/A	61L0603393	39K OHM 1/10W	R611		1
111	#N/A	61L0603393	39K OHM 1/10W	R612		1
112	#N/A	65G0603101 31	CHIP 100P 50V NPO	C612		1
113	#N/A	65G0603101 31	CHIP 100P 50V NPO	C615		1
114	#N/A	65G0603102 32	CHIP 1000PF 50 X7R	C602		1
115	#N/A	65G0603102 32	CHIP 1000PF 50 X7R	C603		1
116	#N/A	65G0603102 32	CHIP 1000PF 50 X7R	C604		1
117	#N/A	65G0603102 32	CHIP 1000PF 50 X7R	C630		1
118	#N/A	65G0603102 32	CHIP 1000PF 50 X7R	C631		1
119	#N/A	65G0603102 32	CHIP 1000PF 50 X7R	C632		1
120	#N/A	65G0603103 32	0.01UF 50V X7R	C607		1
121	#N/A	65G0603103 32	0.01UF 50V X7R	C608		1
122	#N/A	65G0603103 32	0.01UF 50V X7R	C626		1
123	#N/A	65G0603103 32	0.01UF 50V X7R	C629		1
124	#N/A	65G0603104 12	MLCC	C606		1
125	#N/A	65G0603104 12	MLCC	C609		1
126	#N/A	65G0603104 12	MLCC	C618		1
127	#N/A	65G0603104 12	MLCC	C621		1
128	#N/A	65G0603104 12	MLCC	C627		1
129	#N/A	65G0603104 12	MLCC	C628		1
130	#N/A	65G0603105 12	CHIP CAP 1UF.	C610		1
131	#N/A	65G0603105 12	CHIP CAP 1UF.	C611		1
132	#N/A	65G0603105 12	CHIP CAP 1UF.	C613		1
133	#N/A	65G0603105 12	CHIP CAP 1UF.	C614		1
134	#N/A	65G0603105 12	CHIP CAP 1UF.	C616		1
135	#N/A	65G0603105 12	CHIP CAP 1UF.	C619		1
136	#N/A	65G0603105 12	CHIP CAP 1UF.	C623		1
137	#N/A	65G0603105 12	CHIP CAP 1UF.	C624		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
138	#N/A	65G0603221 32	220PF/50V X7R	C622		1
139	#N/A	71G 56G301 EA	CHIP BEAD	FB602		
140	#N/A	71G 56G301 EA	CHIP BEAD	FB604		
141	#N/A	71G 56G301 EA	CHIP BEAD	FB610		
142	#N/A	71G 56G301 EA	CHIP BEAD	FB612		1
143	#N/A	71G 57G301 EA	CHIP BEAD 600 OHM 1206	FB605		1
144	#N/A	71G 57G301 EA	CHIP BEAD 600 OHM 1206	FB606		1
145	#N/A	71G 57G601	CHIP BEAD	FB601		1
146	#N/A	71G 57G601	CHIP BEAD	FB607		1
147	#N/A	71G 57G601	CHIP BEAD	FB608		1
148	#N/A	71G 57G601	CHIP BEAD	FB609		1
149	#N/A	715G1566 1	AUDIO			1
150	**B-00003769**	**CBPC980KA6VWP**	**CONVERSION BOARD**			
151	#N/A	AIC980KA6VWP	MAIN BOARD			1
152	#N/A	33G801714H H	PIN2*7	CN404		1
153	#N/A	33G801724A H	PIN 24P 2.0MM RIGHT ANGL	CN101		1
154	#N/A	33G8027 12	WAFER 2*6P 2.0MM R/A	CN701		1
155	#N/A	33G8027 16	WAFER 16PIN 2.0MM DIP	CN403		1
156	#N/A	40G 45762412B	CBPC LABEL			1
157	#N/A	51G6002 1	GLUE			1
158	#N/A	67G215L101 4N	LOW ESR EC 100UF 25V NCC	C707		1
159	#N/A	67G215L101 4N	LOW ESR EC 100UF 25V NCC	C710		1
160	#N/A	67G215L101 4N	LOW ESR EC 100UF 25V NCC	C712		1
161	#N/A	67G309V100 3	Electrolytic CAP	C408		1
162	#N/A	67G309V100 3	Electrolytic CAP	C717		1
163	#N/A	67G309V109 3	1UF +-20% 16V	C705		1
164	#N/A	67G309V479 3	4.7UF +-20% 16V	C403		1
165	#N/A	67G309V479 3	4.7UF +-20% 16V	C702		1
166	#N/A	88G 35315F H	D-SUB 15PIN	CN405		1
167	#N/A	88G 35424F H	DVID CONN 24P FEMALE 90	CN406		1
168	#N/A	90G6250 1 GP	HEAT SINK			1
169	#N/A	93G 22 53	CRYSTAL 14.31818MHZ HC-4	X401		1
170	**#N/A**	**AIC980KA6VWP**	**MAIN BOARD**			
171	E-00003742	56G 562108	TSUM56AK-LF PQFP-100	U401		1
172	E-00003737	56G 563 7	AIC1084-33PM TO-263	U702		1
173	E-00003739	56G 643 6	IC MICROPROCESSOR MAX810	U406		1
174	#N/A	56G 643 8	IC ASM810MEURF-T SOT-23	U406		1
175	E-00003738	56G1133 34	IC M24C02-WMN6TP	U404		1
176	E-00003738	56G1133 34	IC M24C02-WMN6TP	U405		1
177	E-00003777	56G1133 63AA2	PM25LV010-25SCE	U402		1
178	#N/A	56G1133 74AA2	SST25VF010A-33-4C-SAE SO	U402		1
179	E-00003736	56G113356A	24LC16B/SNG SOIC-8PIN	U403		1
180	#N/A	57G 417 4	PMBS3904/PLILIPS	Q402		1
181	#N/A	57G 417 4	PMBS3904/PLILIPS	Q404		1
182	#N/A	57G 417 4	PMBS3904/PLILIPS	Q701		1
183	#N/A	57G 417 4	PMBS3904/PLILIPS	Q703		1
184	#N/A	57G 417 4	PMBS3904/PLILIPS	Q706		1
185	#N/A	57G 417 6	PMBS3906 PNP	Q401		1
186	#N/A	57G 417 6	PMBS3906 PNP	Q403		1
187	#N/A	57G 417 17 T	PZT2907A SOT-223	Q702		1
188	#N/A	57G 763 1	AO3401L	Q704		1
189	E-00003517	61L0603000	CHIPR 0OHM +-5% 1/10W	FB410		1
190	E-00003517	61L0603000	CHIPR 0OHM +-5% 1/10W	FB411		1
191	E-00003517	61L0603000	CHIPR 0OHM +-5% 1/10W	FB412		1
192	E-00003517	61L0603000	CHIPR 0OHM +-5% 1/10W	R419		1
193	E-00003517	61L0603000	CHIPR 0OHM +-5% 1/10W	R421		1
194	E-00003517	61L0603000	CHIPR 0OHM +-5% 1/10W	R431		1
195	E-00003517	61L0603000	CHIPR 0OHM +-5% 1/10W	R432		1
196	E-00003517	61L0603000	CHIPR 0OHM +-5% 1/10W	R720		1
197	E-00003517	61L0603000	CHIPR 0OHM +-5% 1/10W	R721		1
198	#N/A	61L0603100	CHIPR 10 OHM 1/10W	R462		1
199	#N/A	61L0603100	CHIPR 10 OHM 1/10W	R463		1
200	#N/A	61L0603100	CHIPR 10 OHM 1/10W	R464		1
201	#N/A	61L0603100	CHIPR 10 OHM 1/10W	R465		1
202	#N/A	61L0603100	CHIPR 10 OHM 1/10W	R466		1
203	#N/A	61L0603100	CHIPR 10 OHM 1/10W	R467		1
204	#N/A	61L0603100	CHIPR 10 OHM 1/10W	R468		1
205	#N/A	61L0603100	CHIPR 10 OHM 1/10W	R469		1
206	#N/A	61L0603100 1F	CHIP 1KOHM 1/10W 1%	R478		1
207	#N/A	61L0603100 1F	CHIP 1KOHM 1/10W 1%	R479		1
208	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R411		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
209	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R418		1
210	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R420		1
211	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R427		1
212	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R428		1
213	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R429		1
214	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R441		1
215	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R442		1
216	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R443		1
217	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R445		1
218	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R453		1
219	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R454		1
220	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R455		1
221	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R456		1
222	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R458		1
223	E-00003280	61L0603101	CHIPR 100OHM +-5% 1/10W	R704		1
224	#N/A	61L0603102	CHIPR 1KOHM +-5% 1/10W	R430		1
225	#N/A	61L0603102	CHIPR 1KOHM +-5% 1/10W	R446		1
226	#N/A	61L0603102	CHIPR 1KOHM +-5% 1/10W	R447		1
227	#N/A	61L0603102	CHIPR 1KOHM +-5% 1/10W	R470		1
228	#N/A	61L0603102	CHIPR 1KOHM +-5% 1/10W	R476		1
229	#N/A	61L0603102	CHIPR 1KOHM +-5% 1/10W	R477		1
230	#N/A	61L0603102	CHIPR 1KOHM +-5% 1/10W	R701		1
231	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R406		1
232	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R408		1
233	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R412		1
234	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R413		1
235	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R415		1
236	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R416		1
237	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R424		1
238	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R425		1
239	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R426		1
240	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R450		1
241	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R451		1
242	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R452		1
243	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R457		1
244	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R459		1
245	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R460		1
246	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R461		1
247	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R471		1
248	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R484		1
249	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R485		1
250	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R708		1
251	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R711		1
252	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R714		1
253	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R717		1
254	#N/A	61L0603103	CHIPR 10KOHM+-5% 1/10W	R727		1
255	#N/A	61L0603121	CHIPR 120 OHM 1/10W	R409		1
256	#N/A	61L0603121	CHIPR 120 OHM 1/10W	R414		1
257	#N/A	61L0603150 1F	CHIP 1.5KOHM 1/16W 1%	R480		1
258	#N/A	61L0603202	CHIPR 2KOHM+-5%1/10W	R703		1
259	#N/A	61L0603203	CHIPR 20KOHM +-5% 1/10W	R417		1
260	#N/A	61L0603222	CHIPR 2.2KOHM+-5%1/10W	R448		1
261	#N/A	61L0603222	CHIPR 2.2KOHM+-5%1/10W	R449		1
262	#N/A	61L0603223	CHIPR 22K OHM +-5% 1/10W	R405		1
263	#N/A	61L0603390 0F	390OHM +-1%	R403		1
264	#N/A	61L0603392	CHIP 3.9K OHM 1/10W	R474		1
265	#N/A	61L0603392	CHIP 3.9K OHM 1/10W	R475		1
266	#N/A	61L0603471	CHIPR 470OHM+-5%1/10W	R437		1
267	#N/A	61L0603472	CHIP 4.7KOHM +-5% 1/10W	R422		1
268	#N/A	61L0603472	CHIP 4.7KOHM +-5% 1/10W	R423		1
269	#N/A	61L0603472	CHIP 4.7KOHM +-5% 1/10W	R705		1
270	#N/A	61L0603472	CHIP 4.7KOHM +-5% 1/10W	R707		1
271	#N/A	61L0603472	CHIP 4.7KOHM +-5% 1/10W	R712		1
272	#N/A	61L0603472	CHIP 4.7KOHM +-5% 1/10W	R725		1
273	#N/A	61L0603510	CHIP 51OHM 5% 1/10W	R702		1
274	#N/A	61L0603513	CHIP 51K OHM	R723		1
275	#N/A	61L0603560	CHIPR 56 OHM +-5% 1/10W	R434		1
276	#N/A	61L0603560	CHIPR 56 OHM +-5% 1/10W	R435		1
277	#N/A	61L0603560	CHIPR 56 OHM +-5% 1/10W	R436		1
278	#N/A	61L0603750	CHIPR 75OHM+-5%1/10W	R438		1
279	#N/A	61L0603750	CHIPR 75OHM+-5%1/10W	R439		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
280	#N/A	61L0603750	CHIPR 75OHM+-5%1/10W	R440		1
281	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C401		1
282	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C404		1
283	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C405		1
284	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C406		1
285	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C407		1
286	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C409		1
287	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C410		1
288	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C411		1
289	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C412		1
290	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C413		1
291	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C414		1
292	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C415		1
293	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C416		1
294	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C417		1
295	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C419		1
296	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C420		1
297	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C422		1
298	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C424		1
299	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C425		1
300	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C426		1
301	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C427		1
302	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C428		1
303	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C429		1
304	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C430		1
305	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C439		1
306	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C440		1
307	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C441		1
308	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C444		1
309	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C445		1
310	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C446		1
311	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C447		1
312	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C448		1
313	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C449		1
314	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C450		1
315	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C451		1
316	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C452		1
317	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C453		1
318	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C454		1
319	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C706		1
320	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C709		1
321	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C711		1
322	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C713		1
323	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C714		1
324	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C715		1
325	#N/A	65G0603104 32	CHIP 0.1UF 50V X7R	C718		1
326	#N/A	65G0603220 32	Chip Cap 22PF	C421		1
327	#N/A	65G0603220 32	Chip Cap 22PF	C423		1
328	#N/A	65G0603221 32	220PF/50V X7R	C443		1
329	#N/A	65G0603330 32	CHIP 33PF 50V NPO	C442		1
330	#N/A	65G0603473 32	CHIP 47NF 50V X7R	C432		1
331	#N/A	65G0603473 32	CHIP 47NF 50V X7R	C433		1
332	#N/A	65G0603473 32	CHIP 47NF 50V X7R	C434		1
333	#N/A	65G0603473 32	CHIP 47NF 50V X7R	C435		1
334	#N/A	65G0603473 32	CHIP 47NF 50V X7R	C436		1
335	#N/A	65G0603473 32	CHIP 47NF 50V X7R	C437		1
336	#N/A	65G0603473 32	CHIP 47NF 50V X7R	C438		1
337	#N/A	65G0805105 37	CHIP 1UF 50V Y5V	C708		1
338	#N/A	71G 56Z601	2.0X1.2 100M=600OHM	FB401		1
339	#N/A	71G 56Z601	2.0X1.2 100M=600OHM	FB402		1
340	#N/A	71G 56Z601	2.0X1.2 100M=600OHM	FB403		1
341	#N/A	71G 56Z601	2.0X1.2 100M=600OHM	FB404		1
342	#N/A	71G 56Z601	2.0X1.2 100M=600OHM	FB405		1
343	#N/A	71G 56Z601	2.0X1.2 100M=600OHM	FB406		1
344	#N/A	71G 56Z601	2.0X1.2 100M=600OHM	FB407		1
345	#N/A	71G 56Z601	2.0X1.2 100M=600OHM	FB408		1
346	#N/A	71G 59B121	CHIP BEAD	FB409		1
347	#N/A	93G 39146	LL5232B/FCI	D414		1
348	#N/A	93G 39146	LL5232B/FCI	D415		1
349	#N/A	93G 39146	LL5232B/FCI	D416		1
350	#N/A	93G 39146	LL5232B/FCI	D426		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
351	#N/A	93G 39149	ZENER MLL5232B BY FULL P	D406		1
352	#N/A	93G 39149	ZENER MLL5232B BY FULL P	D408		1
353	#N/A	93G 39149	ZENER MLL5232B BY FULL P	D409		1
354	#N/A	93G 39149	ZENER MLL5232B BY FULL P	D410		1
355	#N/A	93G 39149	ZENER MLL5232B BY FULL P	D411		1
356	#N/A	93G 39149	ZENER MLL5232B BY FULL P	D412		1
357	#N/A	93G 64 42 P	BAV70 DIODE	D407		1
358	#N/A	93G 64 42 P	BAV70 DIODE	D413		1
359	#N/A	93G 6432P	LL4148 MINI-MELF/LL-34	D701		1
360	#N/A	93G 6432P	LL4148 MINI-MELF/LL-34	D702		1
361	#N/A	93G 6433P	BAV99 SOT-23	D403		1
362	#N/A	93G 6433P	BAV99 SOT-23	D404		1
363	#N/A	93G 6433P	BAV99 SOT-23	D405		1
364	#N/A	93G 6433P	BAV99 SOT-23	D417		1
365	#N/A	93G 6433P	BAV99 SOT-23	D418		
366	#N/A	93G 6433P	BAV99 SOT-23	D419		
367	#N/A	93G 6433P	BAV99 SOT-23	D420		
368	#N/A	93G 6433P	BAV99 SOT-23	D421		
369	#N/A	93G 6433P	BAV99 SOT-23	D422		1
370	#N/A	93G 6433P	BAV99 SOT-23	D423		1
371	#N/A	93G 6433P	BAV99 SOT-23	D424		1
372	#N/A	93G 39S 45 T	RLZ36B ZENER DIODE	D401		1
373	#N/A	93G 39S 45 T	RLZ36B ZENER DIODE	D402		1
374	#N/A	93G 39S 45 T	RLZ36B ZENER DIODE	D425		1
375	#N/A	93G1004 4	SCHOTTKY DIODE 1A 40V SM	D704		1
376	#N/A	715G1558 1 2	MAIN BOARD			1
377	**#N/A**	**KEPC980KB8SMT**	**P KEY BOARD**			
378	#N/A	33G803411C	WAFER 1.0MM SMT 11P	CN001		1
379	#N/A	77G 604 2 TO	TACT SWITCH	SW001		1
380	#N/A	77G 604 2 TO	TACT SWITCH	SW002		1
381	#N/A	77G 604 2 TO	TACT SWITCH	SW003		1
382	#N/A	77G 604 2 TO	TACT SWITCH	SW004		1
383	#N/A	77G 604 2 TO	TACT SWITCH	SW005		1
384	#N/A	77G 604 2 TO	TACT SWITCH	SW006		1
385	#N/A	77G 604 2 TO	TACT SWITCH	SW007		1
386	#N/A	77G 604 2 TO	TACT SWITCH	SW008		1
387	#N/A	81G 14501 KT	KTL-HKBGE33B-TRB	LED001		1
388	#N/A	715G1602 1	KEPC			1
389	**B-00003770**	**PWPC1942AUV1P**	**POWER BOARD**			
390	#N/A	PW1942AUV1SMTP	MAIN BOARD FOR SMT			1
391	#N/A	33G8021 2D U	CON.2PR/A	CN201		1
392	#N/A	33G8021 2D U	CON.2PR/A	CN202		1
393	#N/A	33G8021 2D U	CON.2PR/A	CN203		1
394	#N/A	33G8021 2D U	CON.2PR/A	CN204		1
395	#N/A	33G8021 2D AC	WAFER	CN201		1
396	#N/A	33G8021 2D AC	WAFER	CN202		1
397	#N/A	33G8021 2D AC	WAFER	CN203		1
398	#N/A	33G8021 2D AC	WAFER	CN204		1
399	#N/A	33G8029 3A	WAFER 3.96MM	CN901		1
400	#N/A	40G 45762412B	CBPC LABEL			1
401	#N/A	51G 6 4503	RTV GLUE			1
402	#N/A	56G 139 3	PC123FY2 BY SHARP	IC902		1
403	#N/A	56G 139 3A	PC123Y22FZOF	IC902		1
404	#N/A	61G 58080 WT	NTCR	NR901		1
405	#N/A	61G152M398 64	RES.	R918		1
406	#N/A	63G 10747410S	0.47UF +-10% 250VAC	C903		1
407	#N/A	63G210J3342B2	0.33uF 250V PMS TAIYANG	C221		1
408	#N/A	63G211J334 AB	0.33UF 5% 160V	C221		1
409	#N/A	65G 2K152 5A	1500PE 10% Y5P 2KV	C905		1
410	#N/A	65G 3J1206EM	12PF 5% SL 3KV MURATA	C211		1
411	#N/A	65G 3J1206EM	12PF 5% SL 3KV MURATA	C212		1
412	#N/A	65G 3J1206EM	12PF 5% SL 3KV MURATA	C213		1
413	#N/A	65G 3J1206EM	12PF 5% SL 3KV MURATA	C214		1
414	#N/A	65G 3J1206ET	12PF 5% SL 3KV TDK	C211		1
415	#N/A	65G 3J1206ET	12PF 5% SL 3KV TDK	C212		1
416	#N/A	65G 3J1206ET	12PF 5% SL 3KV TDK	C213		1
417	#N/A	65G 3J1206ET	12PF 5% SL 3KV TDK	C214		1
418	#N/A	65G305M1022BJ	1000PF Y2 400V 20% BY JN	C901		1
419	#N/A	65G305M1022BJ	1000PF Y2 400V 20% BY JN	C902		1
420	#N/A	65G305M1022EM	1000pF Y2 250V 20% BY MU	C901		1
421	#N/A	65G305M1022EM	1000pF Y2 250V 20% BY MU	C902		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
422	#N/A	65G306M1022BM GP	Y1.CAP.001UF 250VAC MURA	C935		1
423	#N/A	65G306M1022BP	1000PF 400VAC/250VAC Y1	C935		1
424	#N/A	65G306M2222BM GP	2200PF +-20% 250V AC	C900		1
425	#N/A	65G306M2222BP	2200PF Y1 400 20% BY UK	C900		1
426	E-00002395	67G215H102 3N	KY16VB1000M-1 10*20	C924		1
427	#N/A	67G215L101 4N	LOW ESR EC 100UF 25V NCC	C906		1
428	#N/A	67G215L102 3N	KY16VB1000M-1 10*20	C924		1
429	#N/A	67G215L102 3R	LOW ESR 1000UF +-20% 16V	C924		1
430	#N/A	67G215L102 4N	LOW ESR 1000UF 25V	C923		1
431	#N/A	67G215L102 4N	LOW ESR 1000UF 25V	C931		1
432	#N/A	67G215L102 4R	1000UF/25V	C923		1
433	#N/A	67G215L102 4R	1000UF/25V	C931		1
434	#N/A	67G215L470 4N	47UF/25V	C909		1
435	#N/A	67G215L471 4N	470UF25V KY25VB470-M-L 1	C203		1
436	#N/A	67G215L471 4N	470UF25V KY25VB470-M-L 1	C925		1
437	#N/A	67G215L471 4R	470UF/25V	C203		1
438	#N/A	67G215L471 4R	470UF/25V	C925		1
439	#N/A	67G215P102 3K	LOW ESR EC 1000UF 16V	C924		1
440	#N/A	67G215P102 4K	LOW ESR EC 1000UF 25V	C923		1
441	#N/A	67G215P102 4K	LOW ESR EC 1000UF 25V	C931		1
442	#N/A	67G215P471 3K	LOW ESR EC 470UF 16V	C926		1
443	#N/A	67G215P471 4K	LOW ESR EC 470UF 25V	C203		1
444	#N/A	67G215P471 4K	LOW ESR EC 470UF 25V	C925		1
445	#N/A	67G215S10115K	LOW ESR EC 100uF 450V	C904		1
446	#N/A	67G215S10115N	1000/450PAG450VB100M-L 1	C904		1
447	#N/A	67G215V102 3N GP	KY10VB1000M-L10*16	C924		1
448	#N/A	67G215V102 3R GP	LOW E.S.R 100UF +-20% 16	C924		1
449	#N/A	67G215Y1014KT	LOW ESR EC 100UF 25V	C906		1
450	#N/A	67G215Y4704KT	LOW ESR EC 47UF 25V	C909		1
451	#N/A	67G215Y471 3N	470UF 16V KY16VB470M-L 8	C926		1
452	#N/A	67G215Y4713NV	KY16VB470M-CC3 8*15MM	C926		1
453	#N/A	67G215Y4713RV	LOW E.S.R 470UF +-20% 16	C926		1
454	#N/A	73G 174 64 L	LINE FILTER LF-004057-1	L902		1
455	#N/A	73G 174 64 LS	LINE FILTER	L902		1
456	#N/A	73G 174 64 YS	LINE FILTER	L902		1
457	#N/A	73G 253 91 H	CHOKE BY LI TA	L903		1
458	#N/A	73G 253 91 H	CHOKE BY LI TA	L904		1
459	#N/A	73G 253 91 L	CHOKE BY LI TA	L903		1
460	#N/A	73G 253 91 L	CHOKE BY LI TA	L904		1
461	#N/A	73G 253 91 LS	CHOKE COIL	L903		1
462	#N/A	73G 253 91 LS	CHOKE COIL	L904		1
463	#N/A	73G 253166 L	CHOKE	L201		1
464	#N/A	73G 253166 LS	CHOCK COIL	L201		1
465	#N/A	73G 253166 YS	CHOKE	L201		1
466	#N/A	73L 174 50 LH	LINE FILTER	L901		1
467	#N/A	73L 174 50LSH	LINE FILTER	L901		1
468	#N/A	80GL17T 28 YS	X'FMR	PT201		1
469	#N/A	80GL17T 28 YS	X'FMR	PT202		1
470	#N/A	80GL17T 29 L	X'FMR PT-004046	T901		1
471	#N/A	80GL17T 29 V	XFMR	T901		1
472	#N/A	80GL17T 29 LS	POWER TRANS	T901		1
473	E-00001873	84G 56 1	FUSE 2A 250V	F901		
474	#N/A	93G 50460 13	BRIDGE DIODE	DB901		
475	#N/A	93G 50460502	BRIDGE KBP206G 2A 800V	DB901		
476	#N/A	93G1100 1052T	BA159GPT DO-41 DIODE 1A	D901		1
477	#N/A	95G8014 12 35	WIRE HARRNESS	CN902		1
478	#N/A	705G 780 5720P	D921/D922 ASS'Y			1
479	#N/A	705G 780 5721P	Q901 ASS'Y			1
480	#N/A	705G 780 5722P	R908 ASS'Y			1
481	#N/A	705G 780 5725P	CN901 ASS'Y			1
482	#N/A	705G 780 5733P	Q203 ASS'Y			1
483	#N/A	705G 980 88 A1	ASS'Y			1
484	**#N/A**	**PW1942AUV1SMT**	**P MAIN BOARD FOR SMT**			
485	#N/A	PW1942AUV1AIP	MAIN BOARD FOR AI			1
486	#N/A	56G 379 54	NCP1203D60R2G SOIC-8 IC	IC901		1
487	#N/A	56G 608 1	TL1451ACD SOIC-16	IC201		1
488	#N/A	57G 417 4	PMBS3904/PLILIPS	Q204		1
489	#N/A	57G 417 6	PMBS3906 PNP	Q205		1
490	#N/A	57G 417 12 T	2N3904S-RTK/PS SOT-23	Q204		1
491	#N/A	57G 417 13 T	2N3906S-RTK/PS SOT-23	Q205		1
492	#N/A	57G 760 4	DTA144WKA	Q202		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
493	#N/A	57G 760 5	DTC144WKA	Q201		1
494	#N/A	57G 760 4C	RT1P44HC-T112-1 SC-59BYI	Q202		1
495	#N/A	57G 760 5C	RT1N44HC-T112-1 SC-59BYI	Q201		1
496	#N/A	61L0805000	Chip Resistors 0OHM	R208		1
497	#N/A	61L0805000	Chip Resistors 0OHM	R209		1
498	#N/A	61L0805101	CHIPR 100OHM+-5%1/8W	R912		1
499	#N/A	61L0805102	CHIPR 1K OHM +-5% 1/8W	R924		1
500	#N/A	61L0805102	CHIPR 1K OHM +-5% 1/8W	R931		1
501	#N/A	61L0805102	CHIPR 1K OHM +-5% 1/8W	R932		1
502	#N/A	61L0805103	CHIPR 10KOHM+-5%1/8W	R207		1
503	#N/A	61L0805103	CHIPR 10KOHM+-5%1/8W	R917		1
504	#N/A	61L0805123	CHIP 12K OHM 1/8W	R206		1
505	#N/A	61L0805123	CHIP 12K OHM 1/8W	R214		1
506	#N/A	61L0805123	CHIP 12K OHM 1/8W	R231		1
507	#N/A	61L0805163	CHIP 16KOHM 1/8W	R205		1
508	#N/A	61L0805203	CHIPR 20KOHM +-5% 1/8W	R919		1
509	#N/A	61L0805220	CHIP 22OHM 5% 1/8W	R915		1
510	#N/A	61L0805221	CHIPR 220 OHM +-5% 1/8W	R202		1
511	#N/A	61L0805221	CHIPR 220 OHM +-5% 1/8W	R916		1
512	#N/A	61L0805222	CHIPR 2.2K OHM +-5% 1/8W	R910		1
513	#N/A	61L0805240 1F	CHIPR 2.4KOHM +-1% 1/8W	R201		1
514	#N/A	61L0805240 1F	CHIPR 2.4KOHM +-1% 1/8W	R203		1
515	#N/A	61L0805240 1F	CHIPR 2.4KOHM +-1% 1/8W	R933		1
516	#N/A	61L0805330 2F	CHIP 33KOHM 1/8W/1%	R929		1
517	#N/A	61L0805360 1F	CHIP 3.6KOHM 1/8W 1%	R930		1
518	#N/A	61L0805362	CHIP 306KOHM 1/8W	R911		1
519	#N/A	61L0805471	CHIPR 470 OHM +-5% 1/8W	R204		1
520	#N/A	61L0805471	CHIPR 470 OHM +-5% 1/8W	R230		1
521	#N/A	61L0805472	CHIPR 4.7K OHM +-5% 1/8W	R213		1
522	#N/A	61L0805472	CHIPR 4.7K OHM +-5% 1/8W	R914		1
523	#N/A	61L0805473	CHIPR 47K OHM +-5% 1/8W	R210		1
524	#N/A	61L0805510 2F	CHIP 51KOHM 1/8W 1%	R232		1
525	#N/A	61L0805623	CHIPR 62K OHM +-5% 1/8W	R212		1
526	#N/A	61L0805680	CHIP 68OHM 1/8W	R909		1
527	#N/A	61L0805681	CHIP 680OHM 1/8W	R229		1
528	#N/A	61L0805753	75K 1/8W	R913		1
529	#N/A	61L1206000	CHIPR 0OHM+-5% 1/4W	F902		1
530	#N/A	61L1206000	CHIPR 0OHM+-5% 1/4W	R925		1
531	#N/A	61L1206332	CHIP 3.3KOHM 5% 1/4W	R903		1
532	#N/A	61L1206332	CHIP 3.3KOHM 5% 1/4W	R904		1
533	#N/A	61L1206332	CHIP 3.3KOHM 5% 1/4W	R905		1
534	#N/A	61L1206334	330K 1/4W	R900		1
535	#N/A	61L1206334	330K 1/4W	R901		1
536	#N/A	61L1206334	330K 1/4W	R902		1
537	#N/A	65G0805102 32	CHIP 1000PF 50V X7R 0805	C912		1
538	#N/A	65G0805104 22	CHIP 0.1UF 25VX7R 0805	C201		1
539	#N/A	65G0805104 22	CHIP 0.1UF 25VX7R 0805	C202		1
540	#N/A	65G0805104 22	CHIP 0.1UF 25VX7R 0805	C204		1
541	#N/A	65G0805104 22	CHIP 0.1UF 25VX7R 0805	C208		1
542	#N/A	65G0805104 32	CHIP 0.1UF 50V X7R 0805	C907		1
543	#N/A	65G0805104 32	CHIP 0.1UF 50V X7R 0805	C927		1
544	#N/A	65G0805104 32	CHIP 0.1UF 50V X7R 0805	C928		1
545	#N/A	65G0805104 32	CHIP 0.1UF 50V X7R 0805	C929		1
546	#N/A	65G0805105 22	CHIP 1UF 25V X7R 0805	C205		1
547	#N/A	65G0805105 22	CHIP 1UF 25V X7R 0805	C210		1
548	#N/A	65G0805105 22	CHIP 1UF 25V X7R 0805	C223		1
549	#N/A	65G0805331 31	CHIP 330PF 40V NPO	C207		1
550	#N/A	65G0805471 31	CHIP 470PF 50V NPO	C911		1
551	#N/A	65G0805474 22	CHIP 0.47UF 25V Y5V 0805	C222		1
552	#N/A	65G0805474 22	CHIP 0.47UF 25V Y5V 0805	C932		1
553	#N/A	93G 60264	B340A DO-214AC	D201		1
554	#N/A	93G 6432V	DIODE LL4148 GS08	D210		
555	#N/A	93G 6432V	DIODE LL4148 GS08	D903		
556	#N/A	93G 6432V	DIODE LL4148 GS08	D923		
557	#N/A	93G 6432V	DIODE LL4148 GS08	D924		1
558	#N/A	93G 39S 8 T	RLZ11B LLDS	ZD201		1
559	#N/A	93G 39S 25 T	RLZ5.1B ROHM	ZD902		1
560	#N/A	93G 39S 25 T	RLZ5.1B ROHM	ZD905		1
561	#N/A	93G 39S 38 T	PTZ9.1B ROHM	ZD903		1
562	#N/A	93G 39S 40 T	RLZ13B ROHM	ZD904		1
563	#N/A	93G 39S 44 T	RLZ18B LLDS	ZD901		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
564	#N/A	93G3004 4	DIODE RB050L-40	D201		1
565	**#N/A**	**PW1942AUV1AIP**	**MAIN BOARD FOR AI**			
566	#N/A	6G 31502	1.5MM RIVET			1
567	#N/A	56G 158 10 T	IC AZ431AZ-AE1 TO-92	IC903		1
568	#N/A	56G 158 12	KIA431A-AT/P TO-92 IC	IC903		1
569	#N/A	57G 419 PP T	2PC945P	Q903		1
570	#N/A	57G 420 PP T	TRANSISTOR 2PA733P	Q902		1
571	#N/A	61G 17210252T	1KOHM 5% 1/4W	R225		1
572	#N/A	61G 17210252T	1KOHM 5% 1/4W	R226		1
573	#N/A	61G 17210252T	1KOHM 5% 1/4W	R227		1
574	#N/A	61G 17210252T	1KOHM 5% 1/4W	R228		1
575	#N/A	61G 17218252T	1.8KOHM 5% 1/4W	R221		1
576	#N/A	61G 17218252T	1.8KOHM 5% 1/4W	R222		1
577	#N/A	61G 17218252T	1.8KOHM 5% 1/4W	R223		1
578	#N/A	61G 17218252T	1.8KOHM 5% 1/4W	R224		1
579	#N/A	61G 17256152T	560OHM 5% 1/4W	R923		1
580	#N/A	61G175L47052T	47OHM +-5% 1/2W	R921		1
581	#N/A	61G175L47052T	47OHM +-5% 1/2W	R922		1
582	#N/A	65G517K102 5T	1000PF 10% Y5P 500V	C921		1
583	#N/A	65G517K102 5T	1000PF 10% Y5P 500V	C922		1
584	#N/A	67G 215330 3T	33UF +-20% 50V 105℃ LOW	C209		1
585	#N/A	67G 3051007NT GP	10UF50V KME50VB10-M-TP5	C908		1
586	#N/A	67G215Y1007KT	LOW ESR EC10UF 50V	C908		1
587	#N/A	71G 55 9 T	FERRITE BEAD	J914		1
588	#N/A	93G 64 1152T	DIODE 1N4148 DO-35	D202		1
589	#N/A	93G 64 1152T	DIODE 1N4148 DO-35	D203		1
590	#N/A	93G 64 1152T	DIODE 1N4148 DO-35	D204		1
591	#N/A	93G 64 1152T	DIODE 1N4148 DO-35	D205		1
592	#N/A	93G 64 1152T	DIODE 1N4148 DO-35	D206		1
593	#N/A	93G 64 1152T	DIODE 1N4148 DO-35	D207		1
594	#N/A	93G 64 1152T	DIODE 1N4148 DO-35	D208		1
595	#N/A	93G 64 1152T	DIODE 1N4148 DO-35	D209		1
596	#N/A	93G1020 752T	UF4003PT DO-41 DIODE 1A	D902		1
597	#N/A	95G 90 23	TINCOATEDCOPPER	J900		1
598	#N/A	95G 90 23	TINCOATEDCOPPER	J901		1
599	#N/A	95G 90 23	TINCOATEDCOPPER	J902		1
600	#N/A	95G 90 23	TINCOATEDCOPPER	J903		1
601	#N/A	95G 90 23	TINCOATEDCOPPER	J906		1
602	#N/A	95G 90 23	TINCOATEDCOPPER	J907		1
603	#N/A	95G 90 23	TINCOATEDCOPPER	J908		1
604	#N/A	95G 90 23	TINCOATEDCOPPER	J909		
605	#N/A	95G 90 23	TINCOATEDCOPPER	J910		
606	#N/A	95G 90 23	TINCOATEDCOPPER	J911		
607	#N/A	95G 90 23	TINCOATEDCOPPER	J912		1
608	#N/A	95G 90 23	TINCOATEDCOPPER	J915		1
609	#N/A	95G 90 23	TINCOATEDCOPPER	J916		1
610	#N/A	95G 90 23	TINCOATEDCOPPER	J917		1
611	#N/A	95G 90 23	TINCOATEDCOPPER	J918		1
612	#N/A	95G 90 23	TINCOATEDCOPPER	J919		1
613	#N/A	95G 90 23	TINCOATEDCOPPER	J921		1
614	#N/A	715G1492 1	PWPC			
615	**#N/A**	**705G 780 5720P**	**D921/D922 ASS'Y**	**PARENT**		
616	#N/A	51G 200 1	OIL			1
617	#N/A	90G6240 2	HEAT SINK			1
618	#N/A	93G 60236	FMB-26L TO-220 DIODE	D922		1
619	#N/A	93G 60238	DIODE 10A 150V FCH10A15G	D921		1
620	#N/A	93G 60239	DIODE FME-210B TO-220	D921		1
621	#N/A	93G1506 2	DIODE 15A 60V FMW-2156 T	D922		1
622	#N/A	M1G1730 8128	SCREW			2
623	**#N/A**	**705G 780 5721P**	**Q901 ASS'Y**			
624	#N/A	51G 200 1	OIL			1
625	#N/A	57G 667 30	2SK2645-54MR TO-220F	Q901		1
626	#N/A	57G 724 11	STP9NK65ZFP TO-220FP MOS	Q901		1
627	#N/A	90G6240 1	HEAT SINK			1
628	#N/A	M1G1730 8128	SCREW			1
629	**#N/A**	**705G 780 5722P**	**R908 ASS'Y**			
630	#N/A	61G152M10458G	100K OHM 5% 2W	R908		1
631	#N/A	96G 29 6	SHRINK TUBE UL/CSA			1
632	**#N/A**	**705G 780 5725P**	**CN901 ASS'Y**			
633	#N/A	87G 501 7 RF GP	AC SOCKET			1
634	#N/A	95G 900584	WIRE HARNESS			1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
635	#N/A	95G8021 3 11	HARNESS 100M			1
636	#N/A	96G 29 6	SHRINK TUBE UL/CSA			1
637	**#N/A**	**705G 780 5733P**	**Q203 ASS'Y**			
638	#N/A	15G6284 1	PLATE			1
639	#N/A	51G 200 1	OIL			1
640	#N/A	57G 763 12	AOU401L TO-251	Q203		1
641	#N/A	90G6259 1	HEAT SINK			1
642	#N/A	AM1G1730 6128	SCREW			1
643	**#N/A**	**705G 980 88 A1**	**ASS'Y**			
644	#N/A	51G 200 1	OIL			1
645	#N/A	51G 200 1	OIL			1
646	#N/A	57G 761 7	TRANSISTOR KTD1691/P	Q206		1
647	#N/A	57G 761 7	TRANSISTOR KTD1691/P	Q207		1
648	#N/A	90G6259 1	HEAT SINK			1
649	#N/A	90G6259 1	HEAT SINK			1
650	#N/A	M1G1730 8128	SCREW			1
651	#N/A	M1G1730 8128	SCREW			1

BOM LIST (VG920-1)

ViewSonic Model Number: VS10790

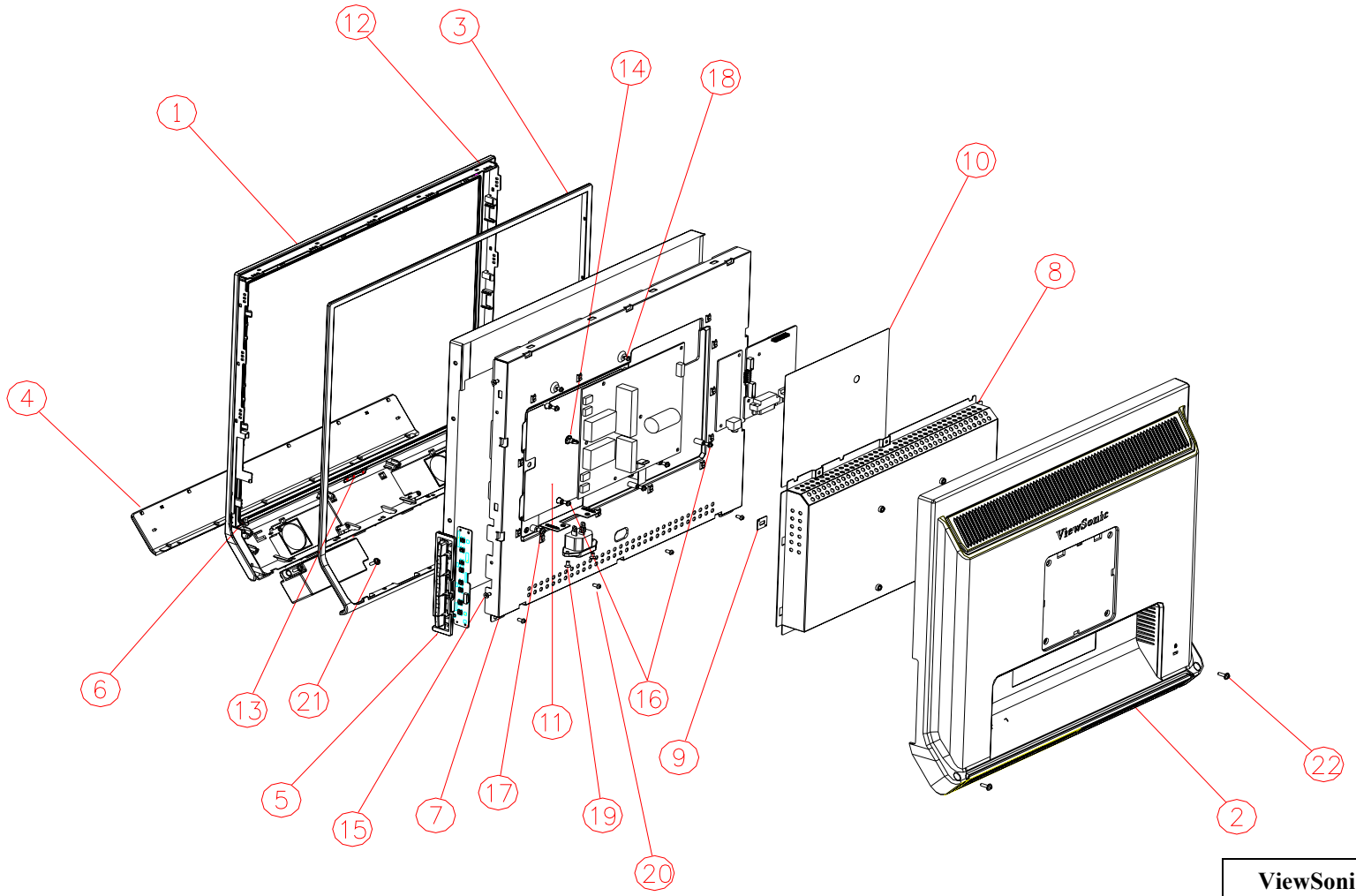
Rev: 1b

Serial No. Prefix: PT1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
1	B-00003717	AUPC980A8P	AUPC BOARD			1
2	N/A	CBPC980KK6VWP	CONVERSION BOARD(HYDIS PANEL)			1
3	N/A	CBPC980KA6VWP	CONVERSION BOARD(AU PANEL)			1
4	N/A	CBPC980KH6VWP	CONVERSION BOARD(HSD PANEL)			1
5	B-00003719	KEPC980KB8SMTP	KEY BOARD			1
6	N/A	PWPC1942HDV1P	POWER BOARD(HYDIS PANEL)			1
7	N/A	PWPC1942AUV1P	POWER BOARD(AU PANEL)			1
8	N/A	PWPC1942HSV1P	POWER BOARD(HSD PANEL)			1
9	N/A	11G 800 2	SPACER SUPPORT (RCM-5)			1
10	N/A	11G6054 1	PIN CONNECTOR			4
11	N/A	12G 434 2	RUBBER PAD			4
12	N/A	12G 437 1	THER MAL PAD			1
13	N/A	12G8000 2	FOOT PAD			2
14	N/A	15G8004 1	ROLLER PIN			4
15	N/A	15G8235 1	MAIN FRAME(AU PANEL)			1
16	N/A	15G8235 2	MAIN FRAME(HYDIS PANEL)			1
17	N/A	15G8235 3	MAIN FRAME(HSD PANEL)			1
18	N/A	15G8237 1	VESA COVER			1
19	N/A	15G8239 1	Kensington bracket			1
20	M-00003751	20G 036 1	BASE DIE CASTING			1
21	N/A	23G3178709 4A	VSC17-LCD FRONT LOGO			1
22	N/A	23G3178709 6A	BIRD LOGO (E015-006)			1
23	N/A	33G4915 KR L	FUNCTION BUTTON			1
24	N/A	33G4917 KR X	ROLLER			4
25	N/A	33G4918 KR X	CABLE CLIP			2
26	C-00003771	34G1687AKR B	BEZEL			1
27	N/A	34G1688 KR B	REAR COVER			1
28	PL-00003789	34G1689AKD B	COSMETIC TOP			1
29	PL-00003788	34G1690 KD B	COSMETIC BOTTOM			1
30	PL-00003767	34G1691 KR B	VESA COVER			1
31	PL-00003790	34G1692 KR B	STAND FRONT			1
32	PL-00003791	34G1693 KR B	STAND REAR			1
33	N/A	34G1694 KD B	BASE FRONT TOP			1
34	N/A	34G1695 KD B	BASE FRONT BOTTOM			1
35	PL-00003759	34G1696 KR B	BASE			1
36	PL-00003766	34G1697 KR X	SWIVEL COVER			1
37	HW-00003778	37G 547 1	HINGE ASS'Y			1
38	DC-00005812	40G 45760819A	MODEL LABEL			1
39	DC-00003727	40G 459709 1B	CARTON LABEL			1
40	DC-00003734	40G 459709 2B	S/N LABEL			1
41	DC-00003729	40G 459709 4A	H/V WARNING LABEL			1
42	DC-00003731	40G 459709 5A	HI-POT LABEL FOR 17-LCD			1
43	DC-00005636	40G 58162435A	MANUAL P/N LABEL			1
44	N/A	40G 459709 3A	QC PASS(HSD CHINA)			1
45	N/A	40G 581709 7A	CUSTOMER SERVICE LABEL(CHINA)			1
46	N/A	40G 581709 9A	CUSTOMER SERVICE LABEL(CHINA)			1
47	N/A	40G 58170912A	S/N FOR WARRANTY(CHINA)			2
48	DC-00003730	40G457B709 1A	Hg LABEL			1
49	DC-00005639	40G581B709 3A	8ms STICKER			1
50	N/A	41G 78624 1B	CERTIFICATE LABEL(CHINA)			1
51	N/A	41G7801709 5A	WARRANTY CARD(CHINA)			1
52	MULTIPLE MATCH	44G3231 15	EVA WASHER			1
53	P-00003785	44G3943 1	EPS(L)			1
54	P-00003786	44G3943 2	EPS(R)			1
55	P-00005642	45G 76 28 V3	PE BAG			1
56	N/A	45G 77 3	TRANSPARENT SHEET			73
57	N/A	45G 88609 4	EPE COVER			1
58	P-00006479	45G 88609800	EPE BAG			1
59	N/A	45G 88626 1	PE BAG FOR MONITOR			1
60	N/A	45G 88709 1A	OUT PE BAG(CHIAN)			1
61	N/A	50G 600 1 W	WHITE PACKING TAPE			74
62	N/A	50G 600 2	HANDLE1			1
63	N/A	50G 600 3	HANDLE2			1
64	N/A	52G 1185 24	TAPE			65
65	N/A	52G 1207 A	ALUMINUM-FOIL TAPE			1
66	N/A	52G 1216 A	ALUMINUM-FOIL TAPE			1
67	N/A	52G 2191 D	TAPE			75
68	N/A	52G6019 1	YELLOW TAPE			5
69	N/A	52G6020 5	PROTECT FILM			1
70	N/A	52G6025 11907	Mylar sheet top			1
71	N/A	52G6025 11909	MYLAR BOTTOM			1
72	N/A	70G1701709 7B	CD MANUAL(HYDIS PANEL)			1
73	N/A	70G1901709 1A	CD MANUAL(HSD PANEL)			1
74	N/A	78G 334 5 K	LCD INNER-SPEAKER			1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
75	N/A	85G 713 1	MAIN SHIELD			1
76	CB-00003723	89G 173 56507	AUDIO CABLE			1
77	CB-00006670	89G 728GAA902	SIGNAL CABLE			1
78	CB-00006701	89G1748GAA 11	DVI CABLE			1
79	N/A	89G402A18N LS	POWER CORD(AMERICA)			1
80	N/A	89G404A18N LS	POWER CORD(EUROPE)			1
81	N/A	89G414A18N LS	POWER CORD(CHINA)			1
82	N/A	89G420A18N LS	POWER CORD(AP)			1
83	N/A	89G412A18NIS3	POWER CABLE(AUSTRALIA)			1
84	N/A	95G8014 16921 X	WIRE HARNESS 16P-11P 330			1
85	CB-00006677	95G8018 30906 Q	WIRE HARNESS			1
86	HW-00005625	M1G 130 6120	SCREW			2
87	HW-00005625	M1G 130 6120	SCREW			4
88	N/A	M1G 140 8120	SCREW M4X8			4
89	HW-00003745	M1G 140 10120	SCREW M4X10			5
90	HW-00005626	M1G 330 4128	SCREW FOR BRACKET			2
91	N/A	M1G1030 6225	SCREW M3X6			1
92	HW-00005627	M1G1140 6128	SCREW			1
93	HW-00005628	M1G1730 6128	SCREW			2
94	HW-00005628	M1G1730 6128	SCREW			3
95	HW-00005628	M1G1730 6128	SCREW			4
96	HW-00003780	M1G2940 10225	M4*10			4
97	N/A	Q1G 130 6 47	SCREW			3
98	N/A	Q1G 130 8120	SCREW			3
99	HW-00003781	Q1G 130 12120	SCREW			1
100	N/A	Q1G 330 6120	SCREW M3X6MM			2
101	N/A	Q1G 330 6120	SCREW M3X6MM			4
102	N/A	Q1G 330 8120	SCREW			2
103	MULTIPLE MATCH	Q1G1030 10120	M3*10			4
104	HW-00003782	Q1G1030 12120	M3*12			2
105	N/A	750GLK90E11	HT190E01-100 19" LCD PAN(HYDIS PANEL)			1
106	N/A	750GLU90N45 12	M190EN04 V5A(SZ)19" LCD(AU PANEL)			1
107	N/A	750GLH9013A71N000V	HSD190ME13 19" LCD PANEL(HSD PANEL)			1
108	N/A	J40G190T709 2A	ID(HYDIS PANEL)			1
109	N/A	J40G190T709 1B	ID(AU PANEL)			1
110	N/A	40G 19B709 1A	ID VG920(HSD PANEL)			1
111	MULTIPLE MATCH	J40GSTAR709 1A	EPA LABEL			1
112	DC-00006673	J41G7801709 4B	QSG			1
113	N/A	J44G3943709 1B	CARTON(AU/HSD PANEL)			1
114	N/A	C 44G3943709 1A	CARTON(HYDIS PANEL)			1
115	N/A	J70G1701709 4C	CD MANUAL(AU PANEL)			1

8. Exploded Diagram and Exploded Parts List



ViewSonic Corporation		
Model		
Title		
Date		Rev:

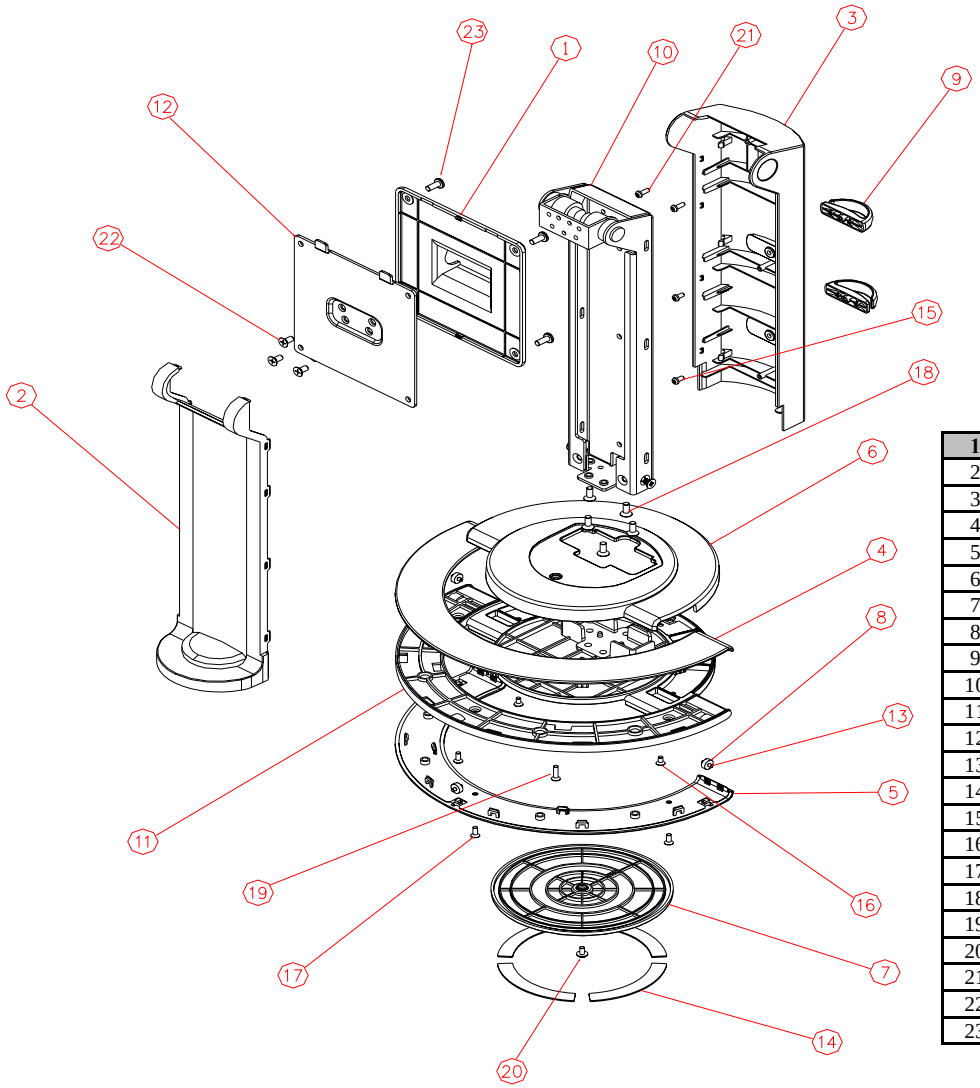
EXPLODED PARTS LIST (VG920-1)

ViewSonic Model Number: VS10790

Rev: 1a

Serial No. Prefix: PT3

ITEM	ViewSonic P/N	P/N	DESCRIPTION	Q'ty
1	#N/A	34G1687-KR-B	BEZEL	1
2	#N/A	34G1688-KR-B	REAR COVER	1
3	#N/A	34G1689-AKD-B	COSMETIC TOP	1
4	#N/A	34G1690-KD-B	COSMETIC BOTTOM	1
5	#N/A	33G4915-KR-L	FUNCTION BUTTON	1
6	#N/A	33G4916-1	POWER LENS	1
7	#N/A	15G8235-1	MAIN FRAME	1
8	#N/A	85G713-1	MAIN SHIELD	1
9	#N/A	15G8239-1	KENSINGTON BRACKET	1
10	#N/A	52G6025-11-907	MYLAR SHEET TOP	1
11	#N/A	52G6025-11-908	MYLAR SHEET BOTTOM	1
12	#N/A	23G3178709-6A	BIRD LOGO (E015-006)	1
13	#N/A	23G3178709-4A	VIEWSONIC LOGO (E015-016-1)	1
14	#N/A	11G800-2	SPACER SUPPORT	1
15	#N/A	M1G130-6-120	SCREW M3X6	4
16	#N/A	M1G1730-6-128	SCREW M3X6	9
17	#N/A	M1G1140-6-128	SCREW M4X6	1
18	#N/A	M1G330-4-128	SCREW M3X4	2
19	#N/A	M1G130-6-120	SCREW M3X6	2
20	#N/A	Q1G1030-6-120	SCREW M3X6	4
21	#N/A	Q1G1030-10-120	SCREW M3X10	4
22	#N/A	Q1G1030-12-120	SCREW M3X12	2



EXPLODED PARTS LIST (VG920-1 STAND-ASS'Y P/N LIST)

1	ViewSonic P/N	34G1691-KR-B	VESA COVER	1
2	#N/A	34G1692-KR-B	STAND FRONT	1
3	#N/A	34G1693-KR-B	STAND REAR	1
4	#N/A	34G1694-KD-B	BASE FRONT TOP	1
5	#N/A	34G1695-KD-B	BASE FRONT BOTTOM	1
6	#N/A	34G1696-KR-B	BASE	1
7	#N/A	34G1697-KR-X	SMIVEL COVER	1
8	#N/A	33G4917-KR-X	ROLLER	4
9	#N/A	33G4918-KR-X	CABLE CLIP	2
10	#N/A	37G547-1	HINGE	1
11	#N/A	20G036-1	BASE DIECASTING	1
12	#N/A	15G8237-1	VESA PLATE	1
13	#N/A	15G8004-1	ROLLER SHAFT	4
14	#N/A	12G434-1	RUBBER PAD	4
15	#N/A	Q1G330-6-120	SCREW M3X6	2
16	#N/A	Q1G130-6-47	SCREW M3X6	3
17	#N/A	Q1G130-8-120	SCREW M3X8	3
18	#N/A	M1G140-10-120	SCREW M4X10	5
19	#N/A	Q1G130-12-120	SCREW M3X12	1
20	#N/A	M1G1030-6-225	SCREW M3X6	1
21	#N/A	Q1G330-8-120	SCREW M3X8	2
22	#N/A	M1G140-8-120	SCREW M4X8	4
23	#N/A	M1G2940-10-225	SCREW M4X10	4

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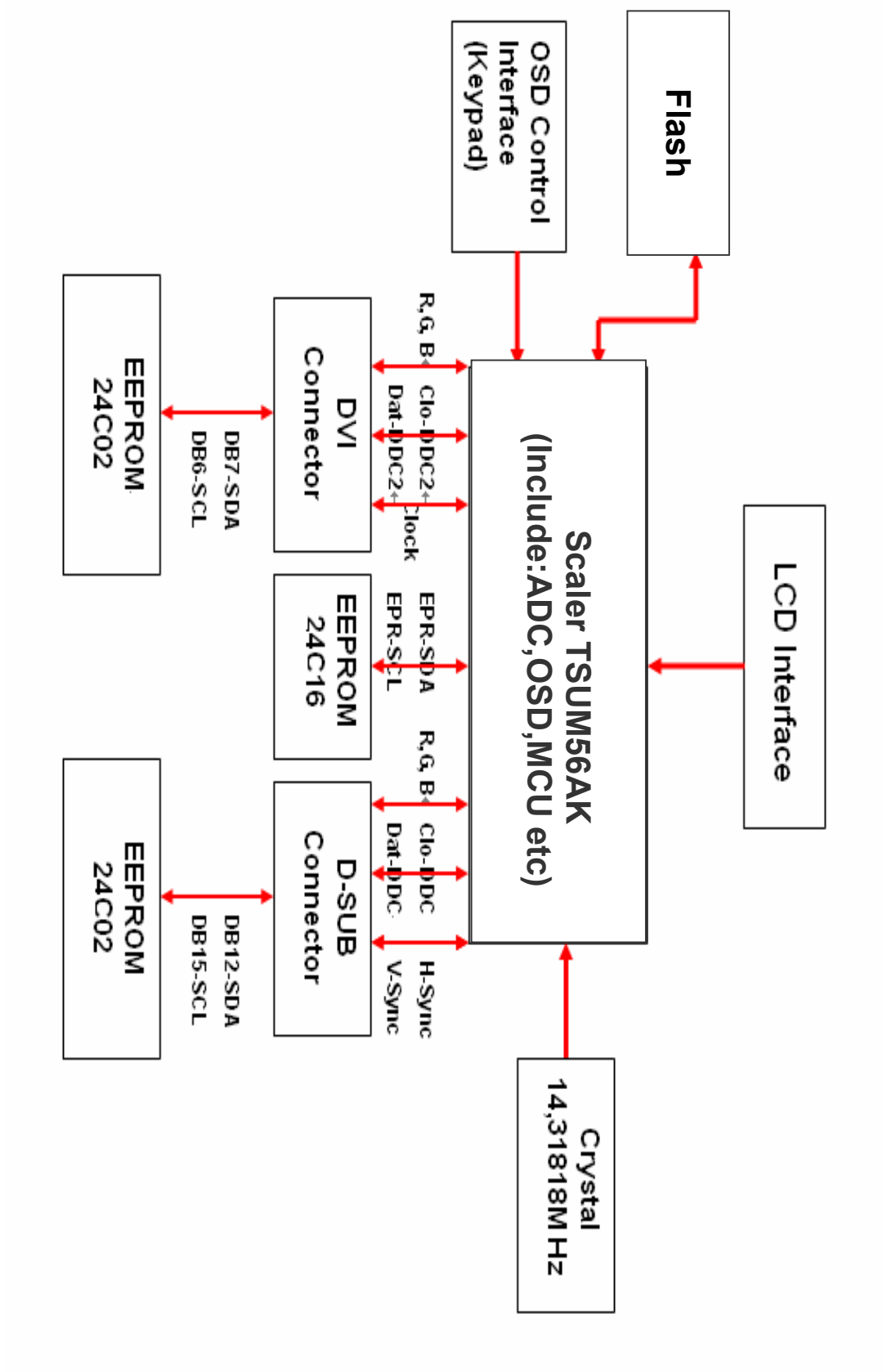
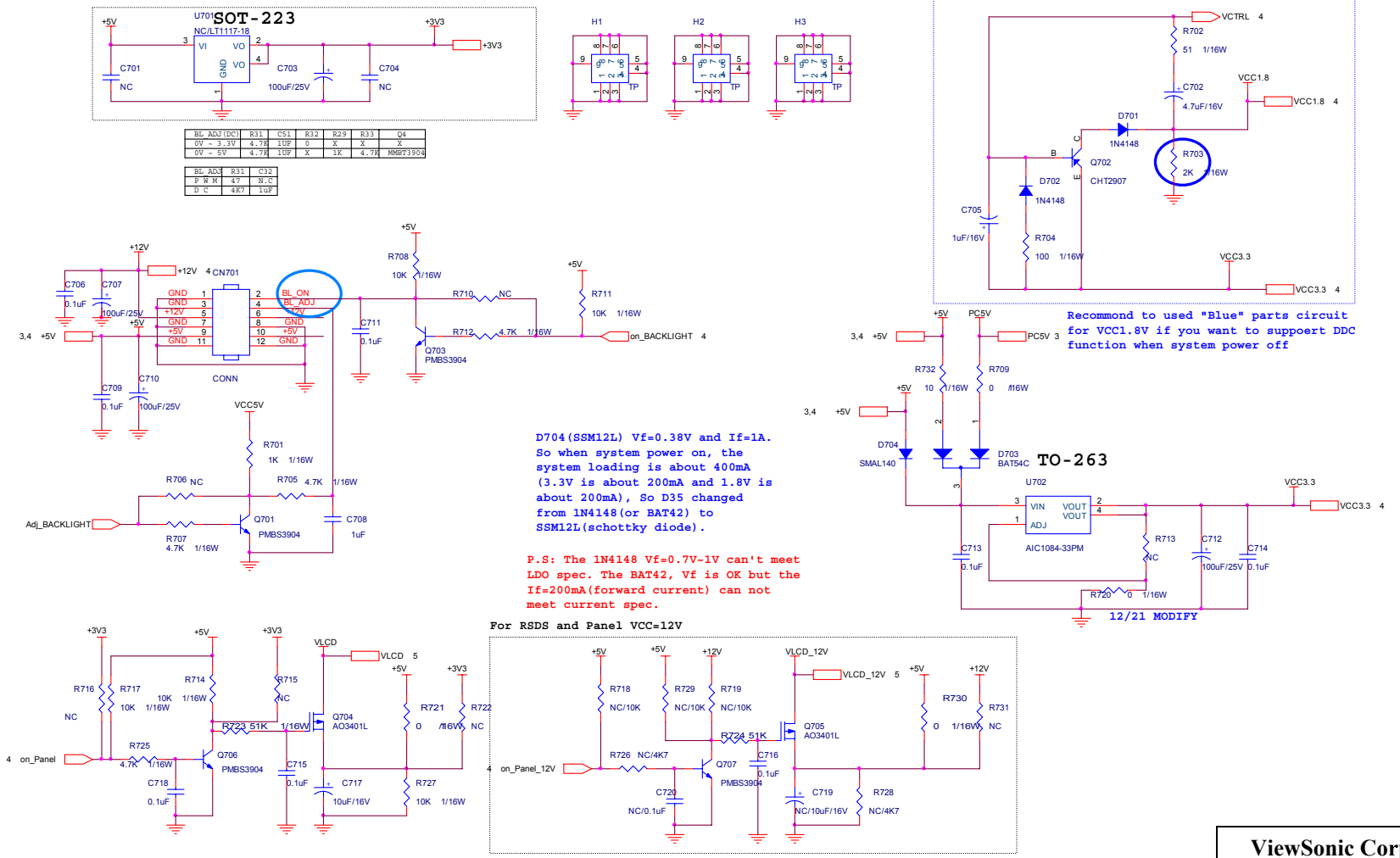
Model		
Title		
Date		Rev:

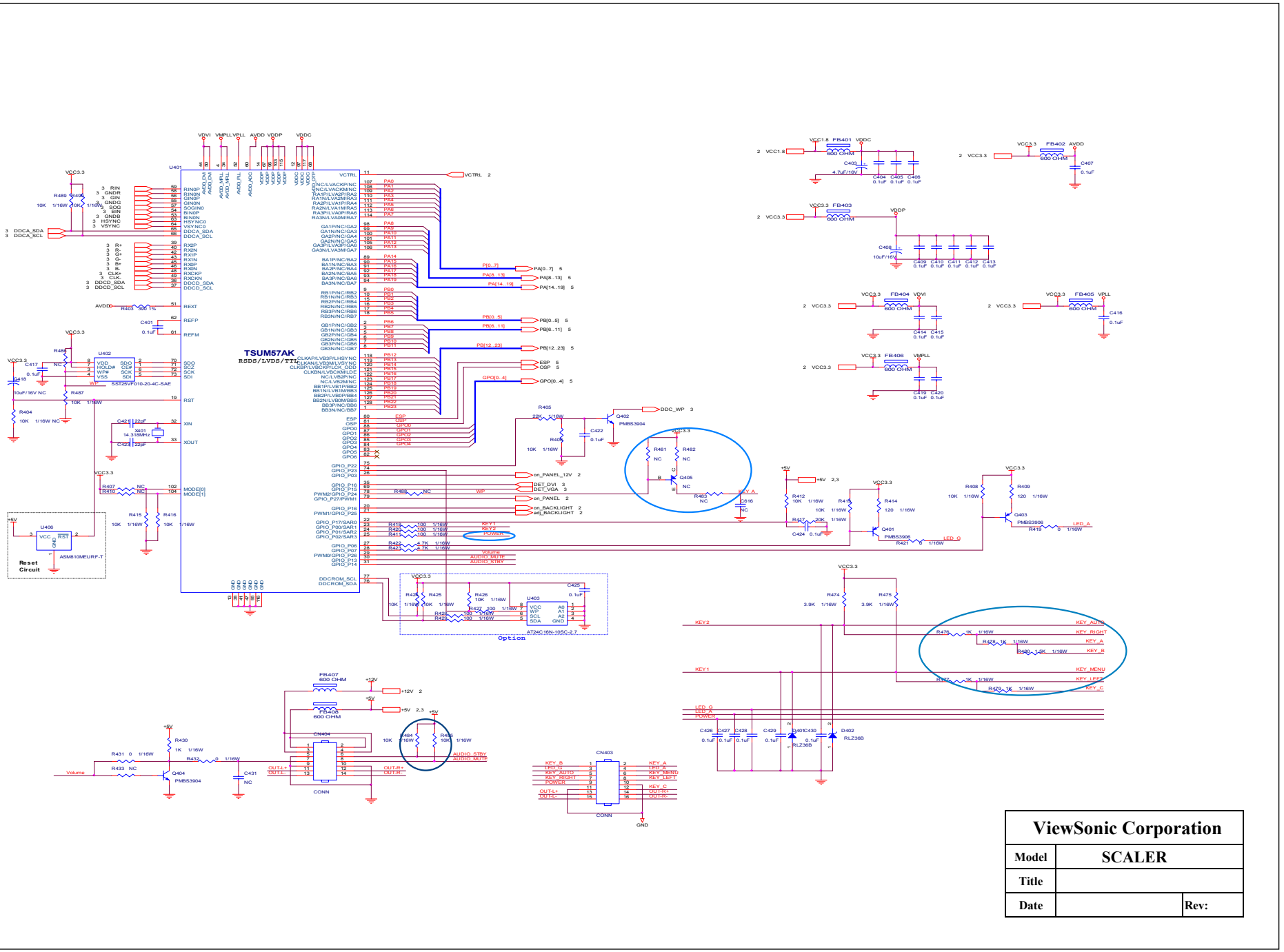
9. Block Diagram

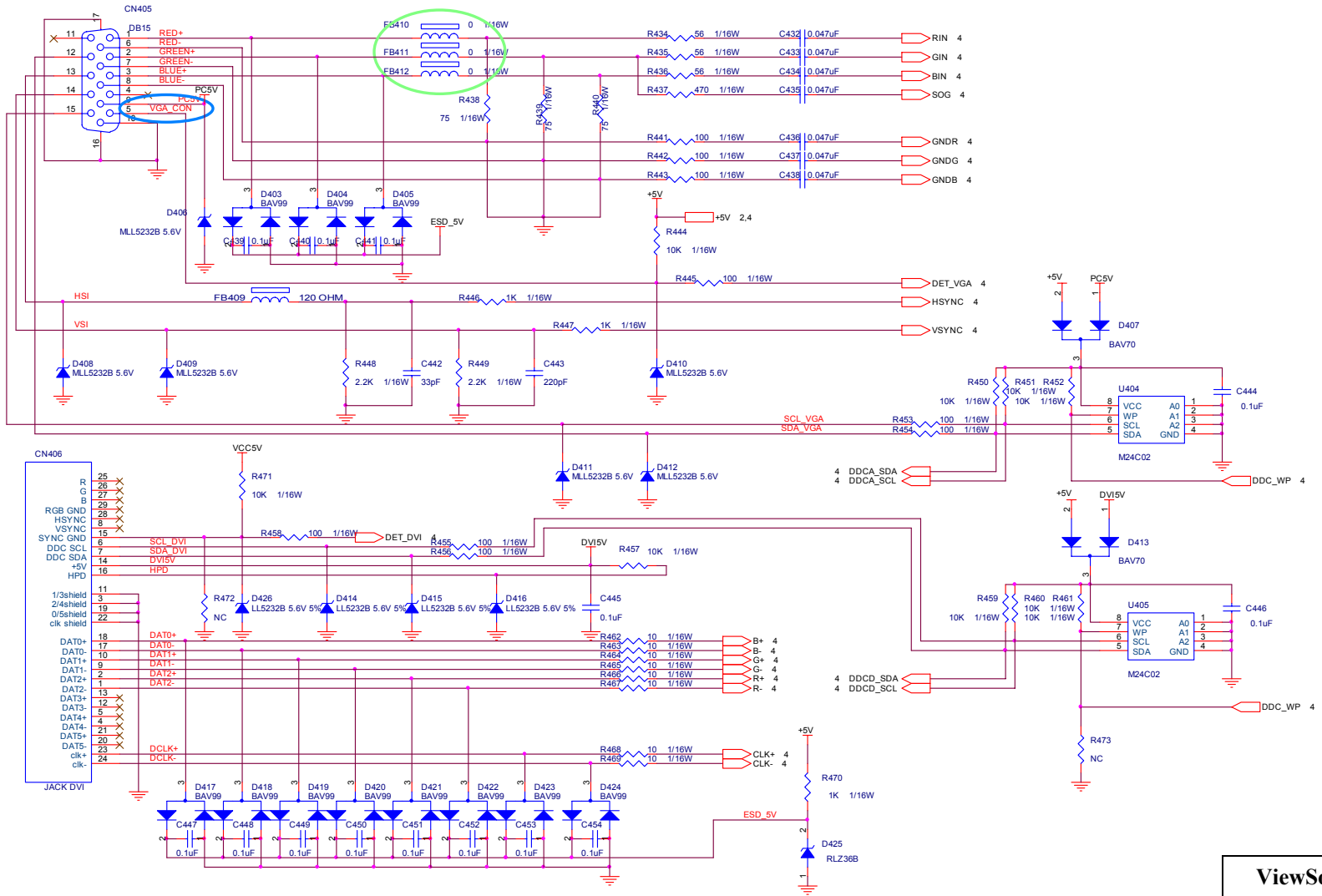


10. Schematic Diagram

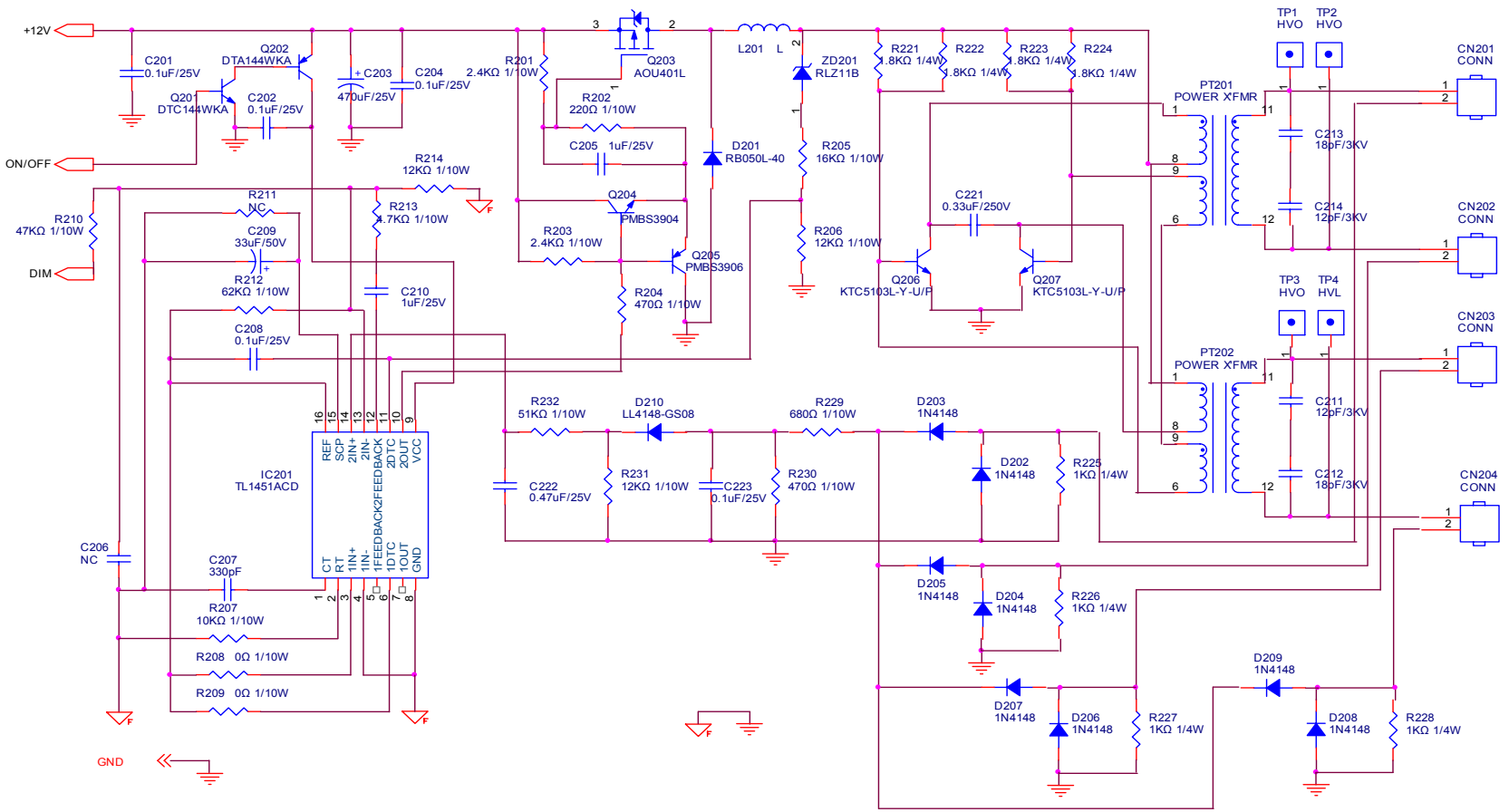


ViewSonic Corporation		
Model	POWER	
Title		
Date		Rev:


TSUM57AK
RSDS/LVDS/TTL
Reset Circuit
Option
ViewSonic Corporation
Model
SCALER
Title
Date
Rev:



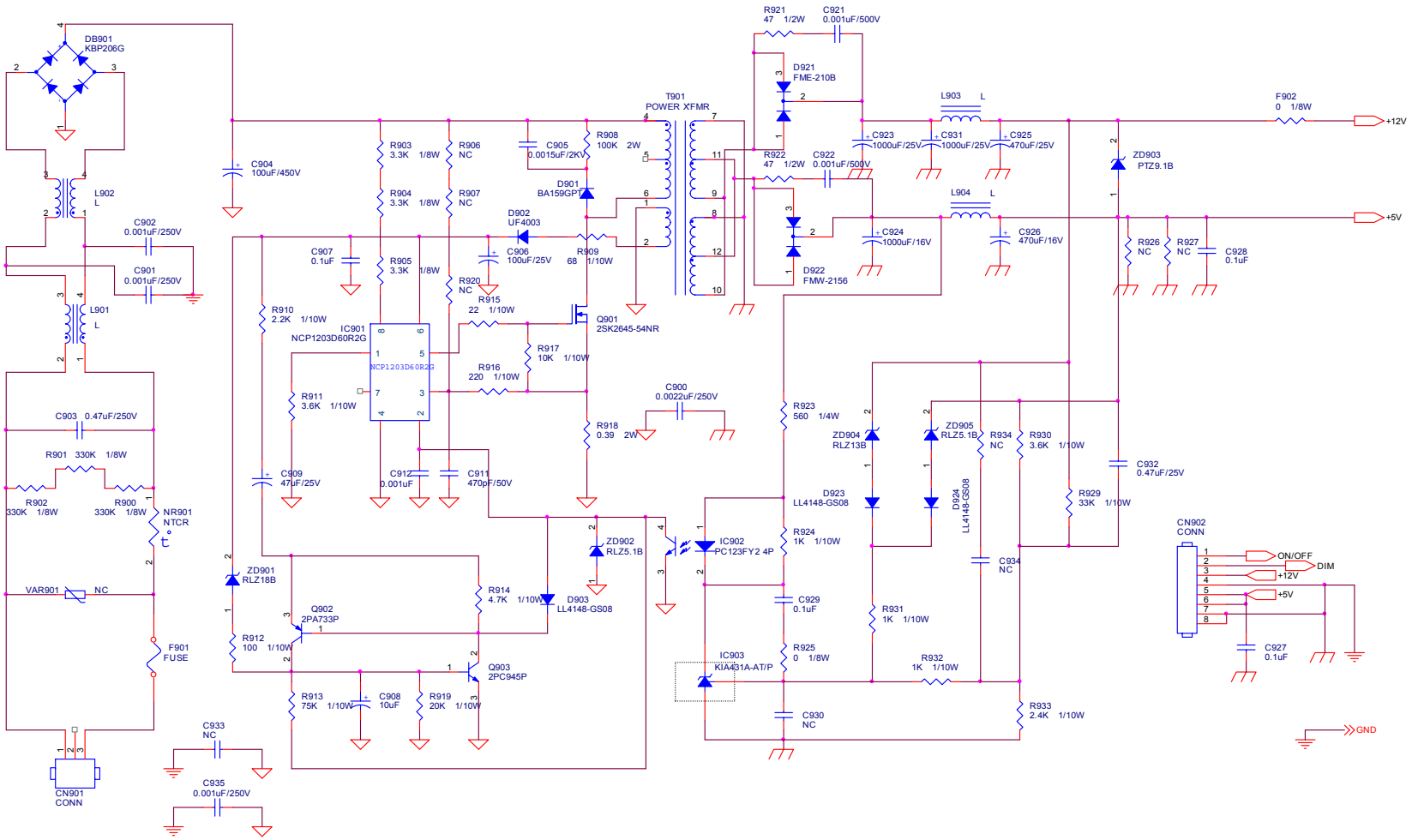
ViewSonic Corporation		
Model	INPUT	
Title		
Date		Rev:



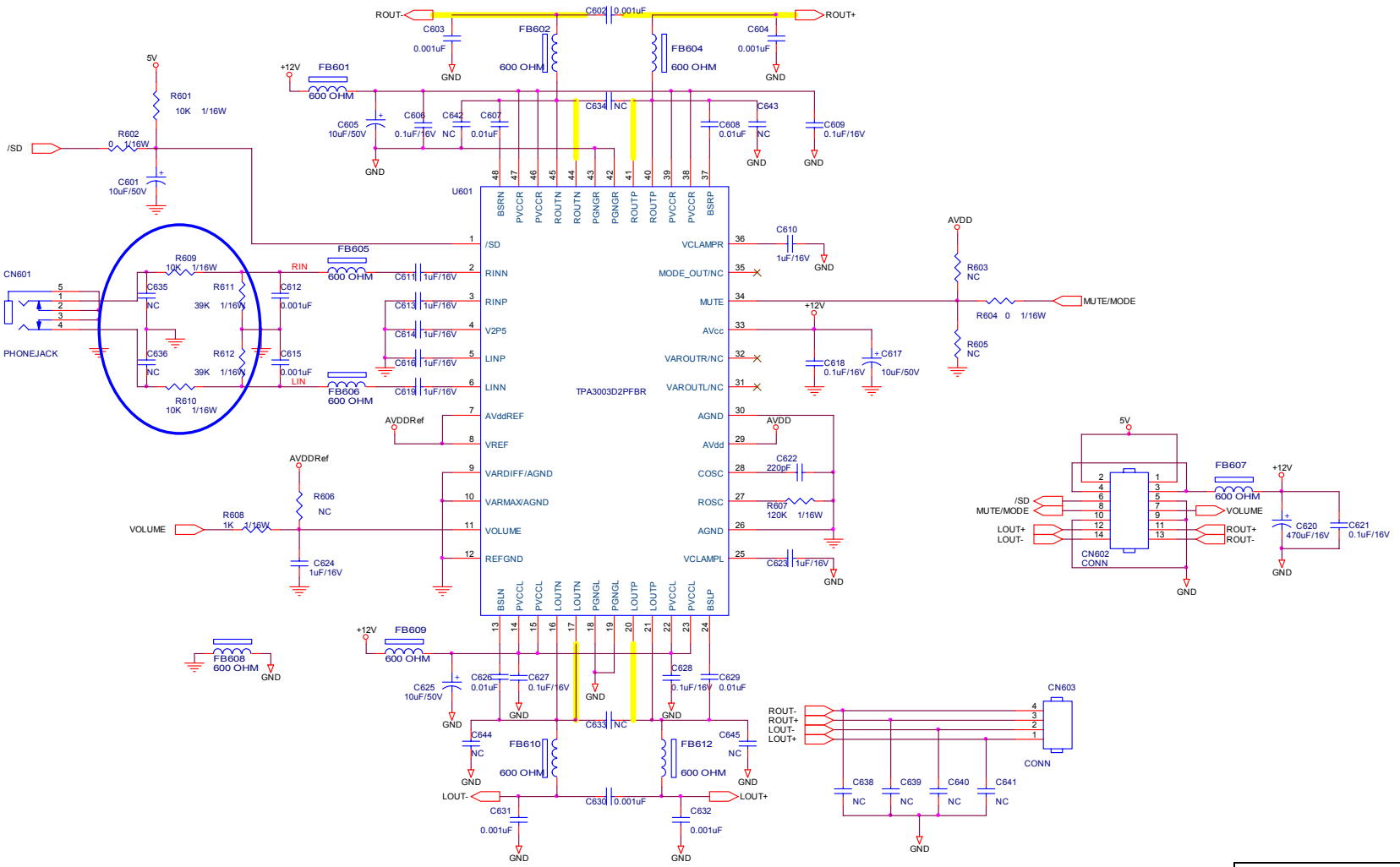
is power GND

is signal GND

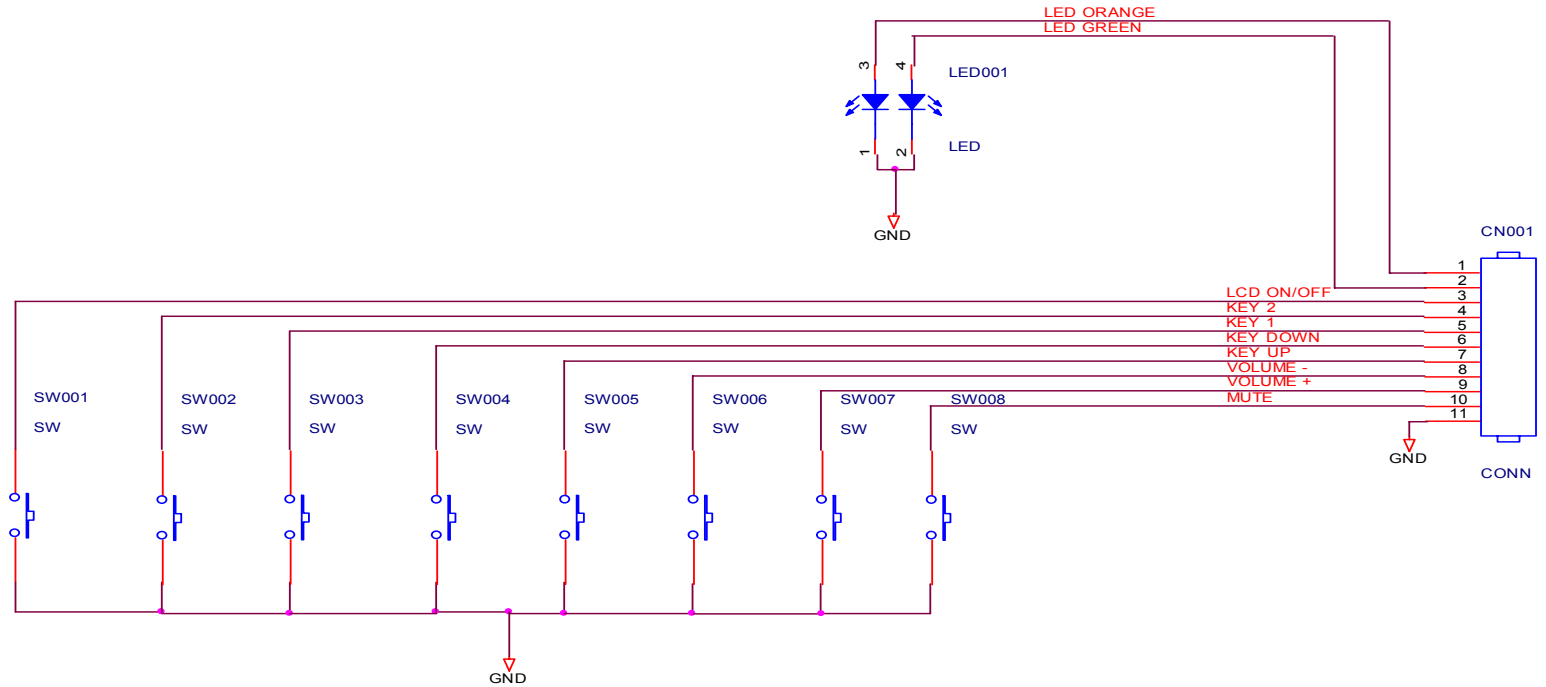
ViewSonic Corporation		
Model	INVERTER	
Title		
Date		Rev:



ViewSonic Corporation		
Model	A-D POWER	
Title		
Date		Rev:



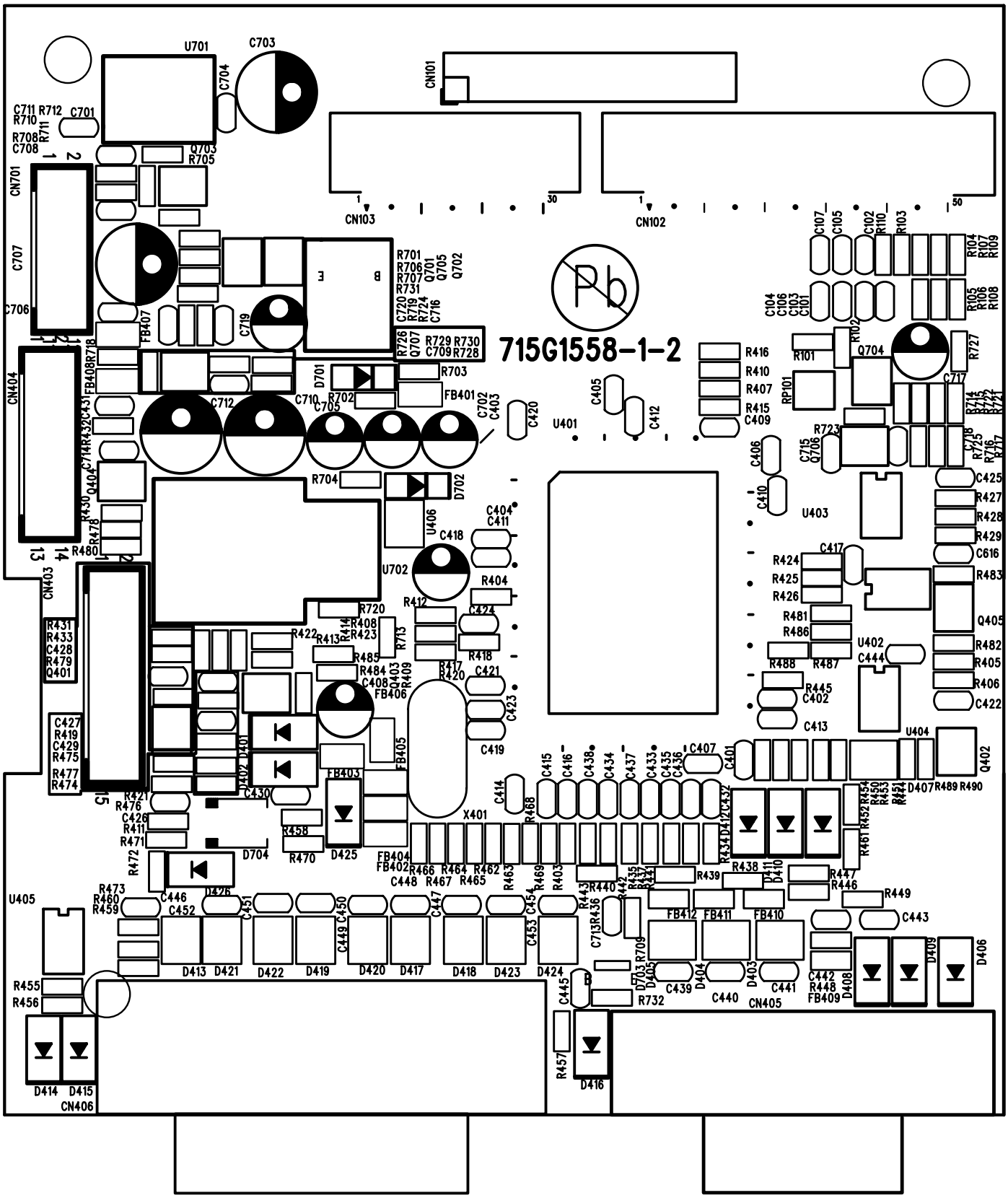
ViewSonic Corporation		
Model	AUDIO	
Title		
Date		Rev:



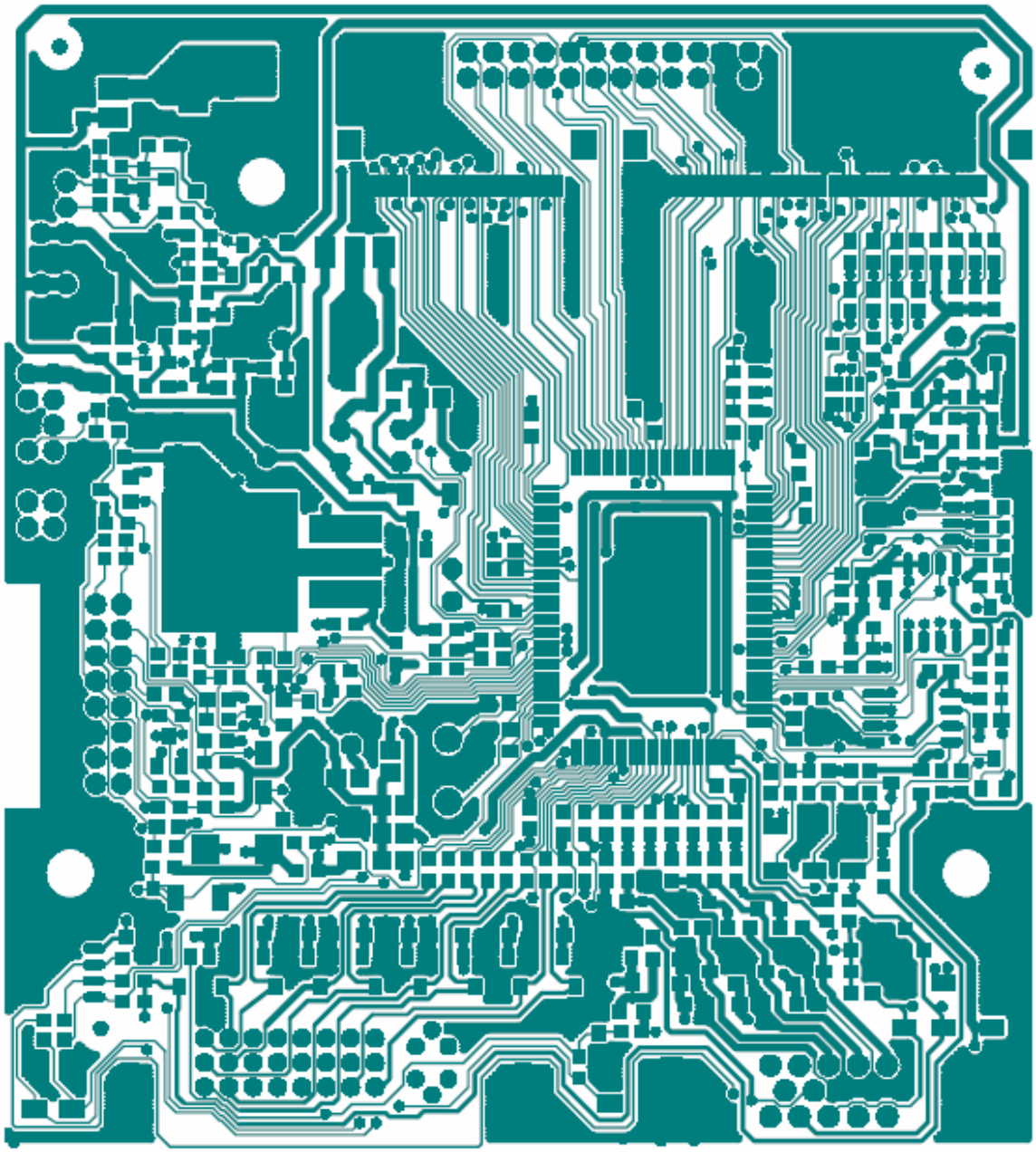
ViewSonic Corporation		
Model	KEY PAD	
Title		
Date		Rev:

11. PCB Layout Diagram

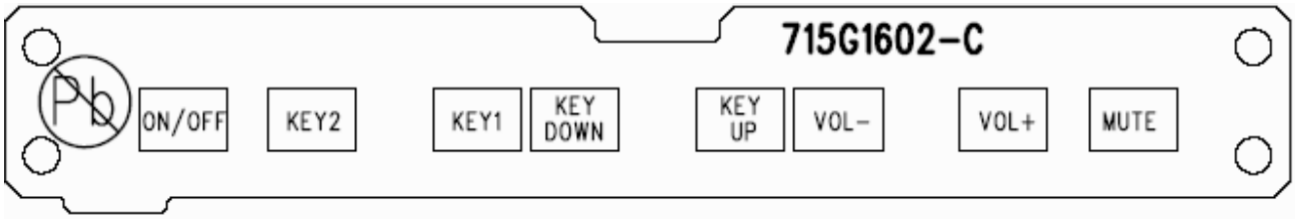
11.1 MAIN BOARD PCB TOP VIEW



11.2 MAIN BOARD PCB BUTTON VIEW

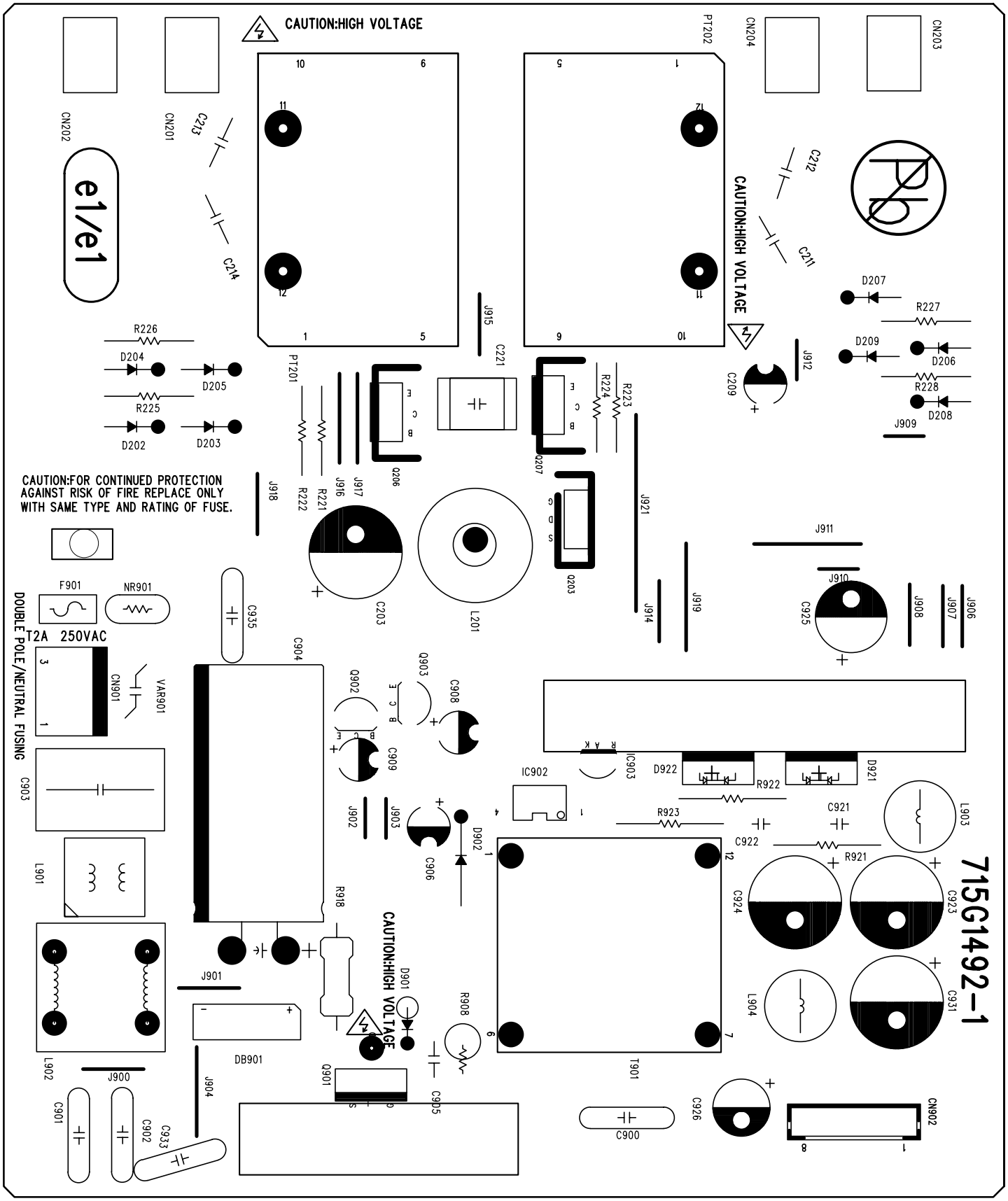


11..3 KEYBOARD TOP VIEW

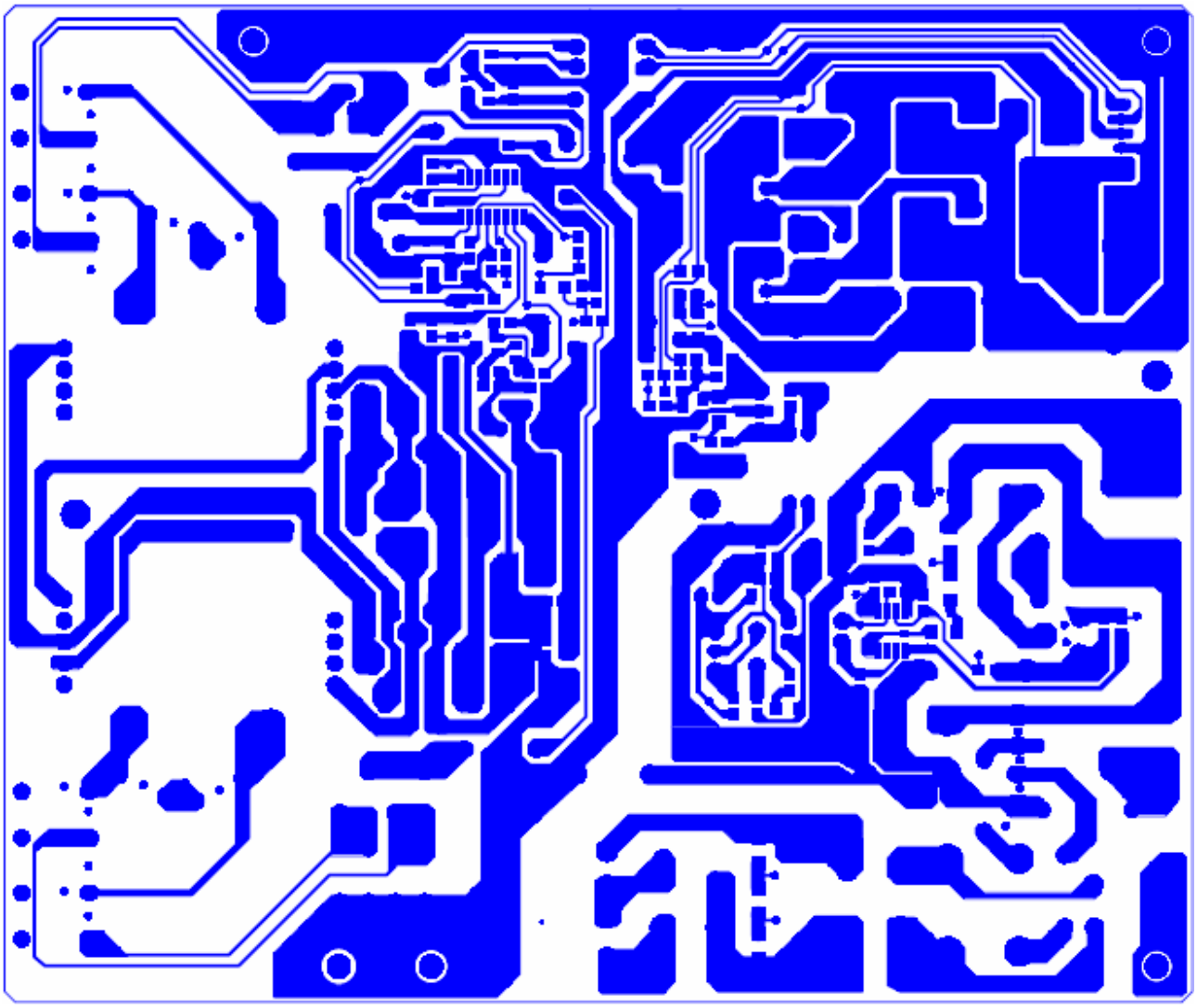


11.4 KEYBOARD BUTTON VIEW

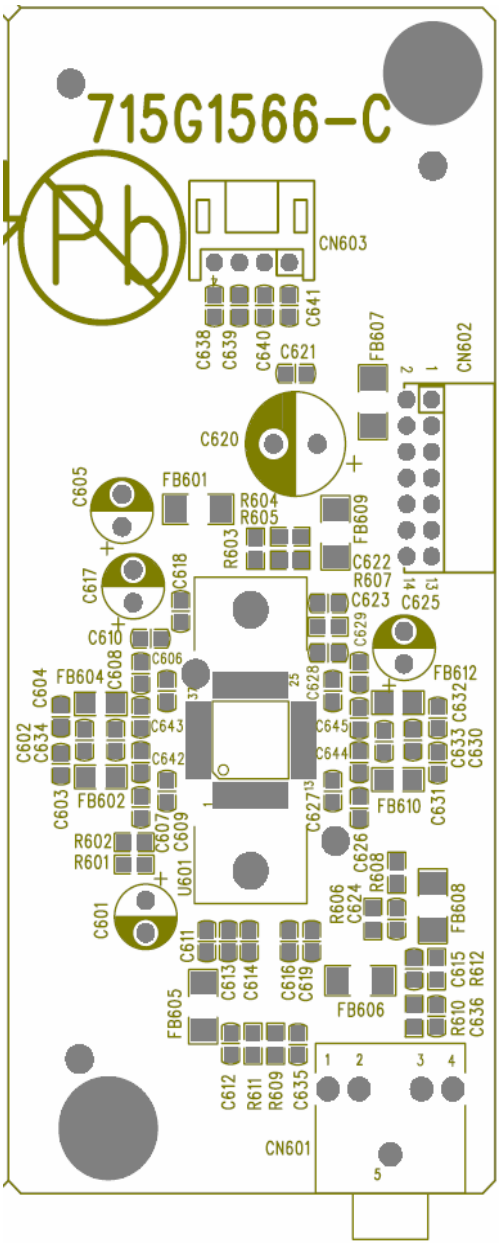
11.5 POWER PCB TOP VIEW

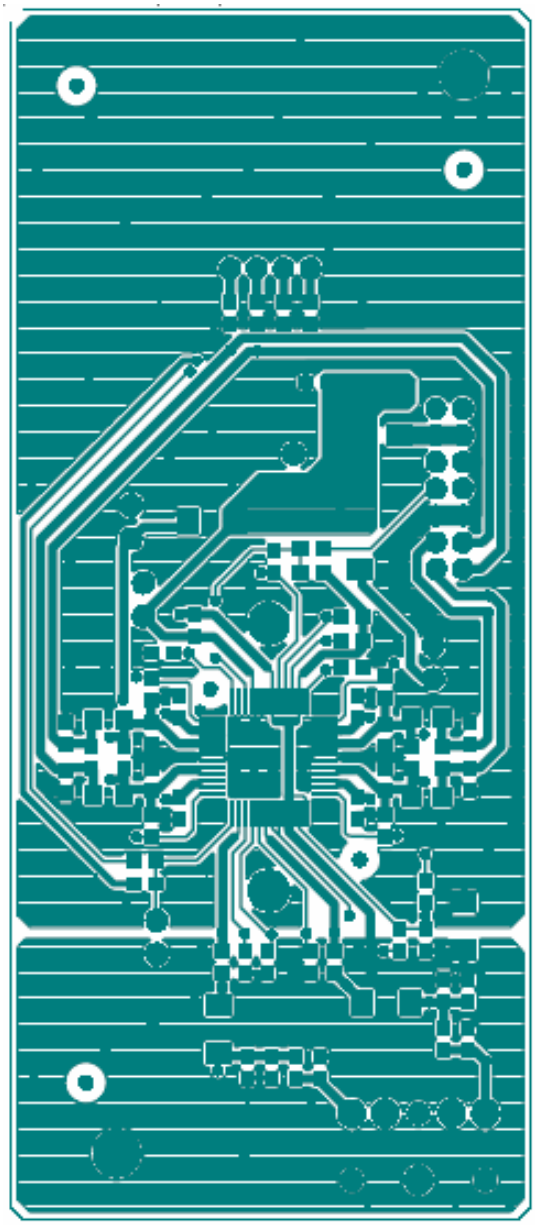


11.6 POWER PCB BUTTON VIEW

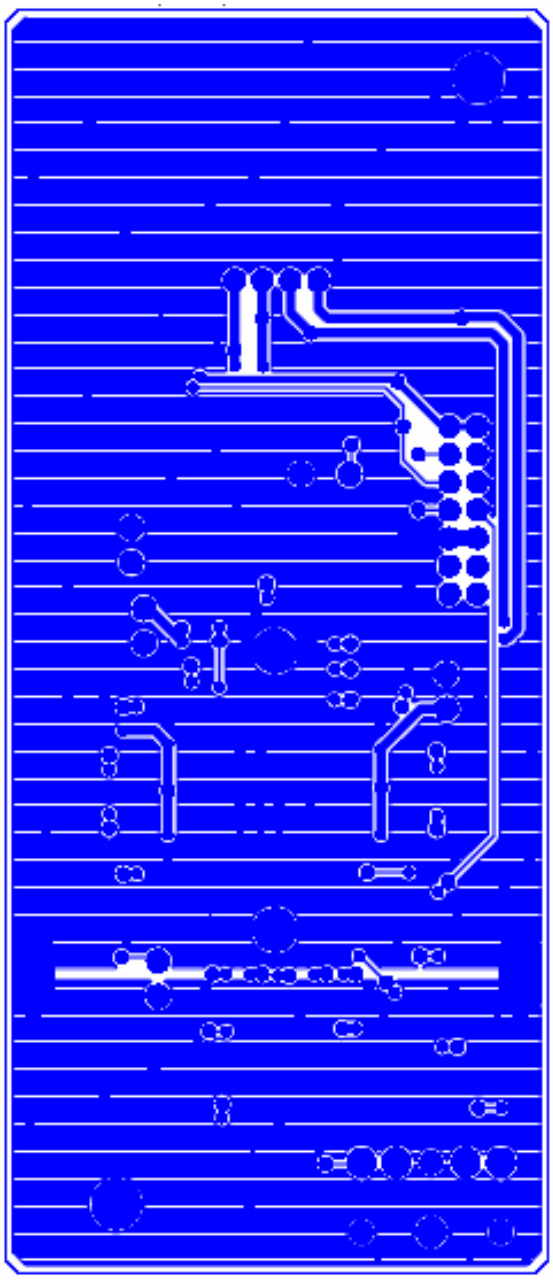


11.7 AUDIO PCB TOP VIEW





11.8 AUDIO PCB BUTTON VIEW



* Reader's Response*

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Thank you in advance for your feedback on our Service Manual, which allows continuous improvement of our products. We would appreciate your completion of the Assessment Matrix below, for return to ViewSonic Corporation.

Assessment

A. What do you think about the content of this Service Manual?

Unit	*Excellent*	*Good*	*Fair*	*Bad*
1. Precautions and Safety Notices				
2. Specification				
3. Front Panel Function Control Description				
4. Circuit Description				
5. Adjustment Procedure				
6. Troubleshooting Flow Chart				
7. Recommended Spare Parts List				
8. Exploded Diagram and Exploded Parts List				
9. Block Diagrams				
10. Schematic Diagrams				
11.PCB Layout Diagrams				

B. Are you satisfied with this Service Manual?

Item	*Excellent*	*Good*	*Fair*	*Bad*
1. Service Manual Content				
2. Service Manual Layout				
3. The form and listing				

C. Do you have any other opinions or suggestions regarding this service manual?

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After completing this form, please return it to ViewSonic Quality Assurance in the USA at facsimile 1-909-839-7943. You may also e-mail any suggestions to the Director, Quality Systems & Processes (marc.maupin@viewsonic.com)